

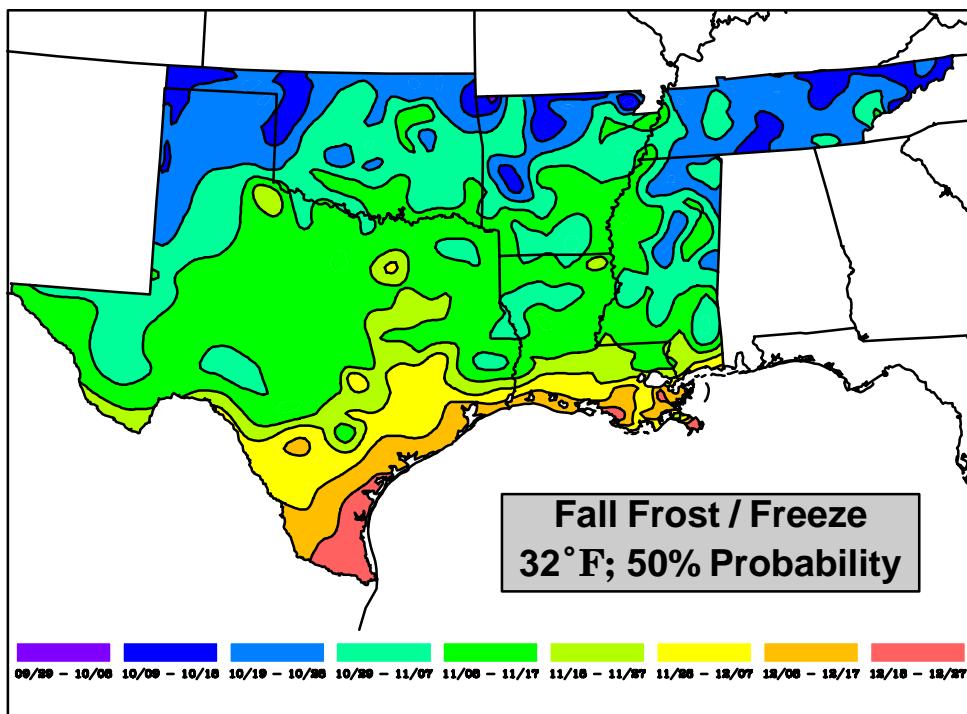
Southern Regional Climate Center

Geography and Anthropology
260 Howe-Russell Building
Louisiana State University
Baton Rouge, LA 70803
(504) 388-5021



FROST / FREEZE ANALYSIS IN THE SOUTHERN CLIMATE REGION

Anthony J. Vega
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Technical Report No. 1

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2. *Formerly*, Graduate Assistant, Southern Regional Climate Center, Dept. of Geography and Anthropology, Louisiana State University, Baton Rouge, Louisiana, 70803. *Presently*, Assistant Professor, Department of Geography and Earth Science, Clarion University of Pennsylvania, Clarion, Pennsylvania. 16214
3. Associate Director, Southern Regional Climate Center and Associate Professor, Biological and Agricultural Engineering, Louisiana State University, Baton Rouge, Louisiana. 70803
4. Louisiana State Climatologist, Dept. of Geography and Anthropology, Louisiana State University, Baton Rouge, Louisiana. 70803

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Frost / Freeze Analysis in the Southern Climate Region

Introduction

Evidence from climate stations across the United States suggests that occurrences of anomalous freezes in the late spring and early fall during recent years may be increasing (Michaels, 1991; Suckling, 1986). An understanding of unusual freeze—events have value far beyond those of purely climatological interest. Virtually every sector of the economy may be affected in some way by unexpected freezes, and in the vast majority of cases these atypical events have negative impacts. Planners and managers need to recognize and understand the seasonal cycles of freezing weather and the potential for these uncommon events to properly develop sound operational strategies.

Although freezing weather may be expected to affect virtually any activity, either directly or indirectly, the most conspicuous effects are realized in three economic areas: energy, transportation, and agriculture. While all three are important activities in the Southern Region (Figure 1), periods of freezing temperatures have the greatest impact within the agricultural sector. Clearly these freeze—events cause substantial increases in energy demands for heating purposes and inconveniences for roadway and traffic operations, but fortunately freeze events commonly have relatively short durations across this region, and often are separated by extended periods when temperatures remain above 32°F (0°C).

However, with respect to agriculture in the Southern region, freezes are particularly important. For example, unusual cold spells can be particularly damaging to agriculture during the spring months, especially when the spring is preceded by an anomalously warm winter. The onset of a severe late—season freeze may cause the near—total devastation of crops which are in the early stages of growth. Many plants are also particularly vulnerable to freezing temperatures during

the flowering phase. This is especially true in the Southern Region where many crops are susceptible to light freezes throughout the productive cycle (*i.e.* peaches, strawberries).

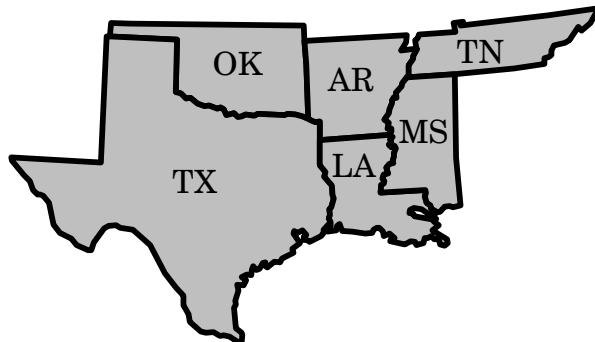


Figure 1. The Southern Region.

Any temperature which falls below 32°F (0°C) is considered a freezing temperature; however, the magnitude and duration of below 32°F (0°C) temperatures are often most important with regard to environmental impacts. Freezes may be defined as light, moderate or severe (Michaels, 1991). A *light freeze* (or *frost*) occurs when temperatures are between 29°F (-2°C) and 32°F (0°C). Temperatures within this range may destroy tender vegetation, certain varieties of fruit trees, and many tropical species. A *moderate freeze* is defined by temperatures between 25°F (-4°C) and 28°F (-2°C). When temperatures are within this range, substantial damage occurs to tender plants as well as semi-hardy plants; therefore, moderate freezes affect most vegetation. *Severe freezes* (sometimes referred to as a *hard freeze*) occur when temperatures fall below 25°F (-4°C), often resulting in extensive damage to most vegetation.

The “killing frost” is defined as the first frost which kills most types of vegetation, thereby effectively ending the growing season. The *growing season* is defined as the period between the last spring freeze and the first fall freeze, the period in which all vegetation will grow.

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Because the amount of vegetation destroyed by any freeze event depends on both the absolute minimum temperature, duration of the freeze, and the type of vegetation present, the growing season for tender plants may be considerably shorter than that of hardier plants. Also, the developmental stage of the plant must be considered, as plants in the early growth stage are much more vulnerable than mature plants. Plants which experience a cold spell (without freezing temperatures) over a few days preceding a freeze are much hardier than if a warm spell had occurred prior to the freeze event (Stewart *et al.*, 1984). Therefore, antecedent weather before a freeze may be as important as the type and variety of the vegetation and the stage of plant development.

Crop losses increase dramatically as the temperature falls below the *critical temperature* (Proebsting and Mills, 1978), defined as the temperature at which a 10% loss in production is expected. The difference between a light 10% killing frost and a disastrous 90% kill may be 3°F (2°C) or less (Stewart *et al.*, 1984). Yet in some cases light freezes may benefit crop production. A light freeze in the early stage of development has been related to yields of higher quality apples due to thinning of excess blooms (Eichhorn *et al.*, 1961). However, such is not the case concerning many crops of the Southern Region as light freezes may cause the widespread destruction of crops.

Because of the variety of problems associated with freezes, freeze/frost data and their sta-

tistical analyses provide valuable information for applications to a wide array of users (Miller and Downton, 1993; Stewart *et al.*, 1984). Since information reduces the uncertainty concerning the outcome of actions, the quality and value of the information in the decision-making process can be used to maximize profit. Therefore, the most current information regarding freeze probabilities has economic value as a first line of preparation and defense against the freeze hazard (Miller and Downton, 1993).

The Southern Region, monitored by the Southern Regional Climate Center (SRCC), includes a six-state area in which a variety of climatic regimes exists. The region includes deserts in the west, mountains and extensive plains in the north, and coastal environments extending along the Gulf of Mexico to the south. Accompanying these diverse climate regimes are complex arrays of freeze distributions which necessitates a detailed assessment of the freeze/frost hazard.

Many publications which provide freeze estimates for given states and specific locations are in need of updating to reflect recent climatological trends. One widely-cited publication, *Freeze/Frost Data* (National Climatic Data Center, 1988), utilizes data from the period 1951–1980. Recent studies suggest that regional climatic shifts may have taken place across North America since that time (Leathers *et al.*, 1991; Karl, *et al.*, 1984). As a result, a better understanding of freeze events in the Southern Region may be gained with an update of *Freeze/Frost Data*.

Freeze / Frost Climatology

In the south, two general synoptic conditions produce freezing temperatures (Rogers and Rohli, 1991; Critchfield, 1983). The first is associated with migratory cold airmasses or *Arctic outbreaks*; the second involves nighttime radiational cooling. Both situations may result from the same synoptic condi-

tions following a cold front passage; indeed radiational cooling may bring further surface cooling to an area already affected by an Arctic outbreak.

Ideal climatic conditions for a significant air-mass freeze event include: cold polar air, low

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humidity, clear skies, and light or calm winds. Cold polar outbreaks usually frequent the Southern Region sporadically between November and March, but may intrude into the area as early as October or as late as April. These outbreaks are usually associated with deep meridional flow patterns in the upper atmosphere which allow polar or Arctic air from high latitudes to advect southward toward the Gulf of Mexico (Rogers and Rohli, 1991). Such outbreaks are common and expected during the winter months but are less common during spring and fall (Wendland, 1987). The cold wave typically involves a significant rate of temperature decline (usually 25°F, 14°C, or more in 24 hours), a very low minimum temperature, and strong winds. Obviously, the minimum temperature is dependent upon a number of factors including airmass modification; however, significant warming of a southward-moving airmass is usually negligible with regard to severe Arctic outbreaks.

High humidities and/or substantial cloud cover in the lower troposphere effectively absorb out-going longwave radiation and re-radiate it to the surface which heats the air near the ground. Therefore, clouds serve to "blanket" the earth as net radiation loss is impeded. Conversely, low humidities and clear skies behind a cold front typically associated with the advance of a cold wave allow for increased longwave radiational loss. This phenomenon, known as *radiational cooling*, contributes to increased cooling of the air near the earth's surface.

Furthermore, light winds or calm conditions maximize surface cooling in cold waves by minimizing mixing within the atmosphere. Winds promote warm air advection (horizontal transport) as well as vertical mixing; both may effectively warm the surface which decreases the impact of the cold wave. However, under calm or near-calm conditions *inversions*, an increase in temperature with height, may be produced by radiational cool-

ing. An inversion may promote additional freeze damage as the coldest air is trapped near the surface. With the passage of a cold front, strong winds are typical as cold air advances upon warm air to the south. Within 24–36 hours following the frontal passage, winds typically become light and variable, especially at night, causing increasingly low minimum temperatures (Critchfield, 1983).

Dramatic influences on the distribution of freezing temperatures may also be caused by changes in slope and elevation. The local orientation and slope of the ground are important since freezes may occur in areas without freezing temperatures being officially recorded. Cold air, being dense, sinks to the surface causing large temperature differences between the surface and air just a few feet above. Temperature sensors, normally located five feet (1.5 m) above the surface, adequately describe the air temperature only at that level and often do not represent the temperature of the air or plants at the surface. Therefore, a frost may occur on the ground when "official" temperatures are as high as 36°F (2°C) (Michaels (1991).

Also, cold air "drains" into valleys and low-lying areas which brings freezing temperatures to areas even though above-freezing temperatures are recorded only a short distance away. Fortunately, this type of freeze/frost event is generally light and rarely does significant damage to most vegetation (Michaels, 1991).

Elevation also plays an important role in the distribution of freezing temperatures. Where there is great relief, vertical zonation of temperature is common. Altitude duplicates the influence of latitude with regard to heat, resulting in a temperature decreases with height. However, a thermal belt typically occurs along the slopes of mountains with a well defined belt of relatively warm temperatures during nights when radiation cooling takes place. The thermal belt lies midway between the zone of cold air ponding (the sink-

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ing of colder, denser air) in the valleys and cooling above, caused by radiational cooling of the mountain tops (Critchfield, 1983). Frequent exploitation of the thermal belt for agricultural purposes takes place mainly in the valleys of the Appalachian Mountain chain (Michaels, 1991).

This publication serves as a regional update to *Freeze/Frost Data* (National Climatic Data Center, 1988). Past climatological studies traditionally involve the use of 30-year periods for analysis. Although Sabin and Shulman (1985) suggest a longer time interval for freeze/frost studies, the present analysis also utilized a 30-year study period (1961–1990) so that as many stations as possible could be incorporated. A longer study period reduces the number of stations available for a temporally-consistent dataset. Freeze probabilities were derived for 342 stations throughout the Southern Region.

For statistical purposes, the use of Julian days are initially incorporated and later recalculated into standard calendar dates. This study uses a Julian freeze year (Vestal, 1971) which begins with July 1 and ends with June 30.

Statistical methods employed within this study are similar to those of Thom (1959) and Cry (1968), which incorporate both freeze dates and freezeless years. The mean dates for the first fall freeze and the last spring freeze are used to generate risk probabilities for all stations although many of the stations exhibit non-normal freeze date distributions as determined by the Kolmogorov-Smirnov test for normality. The freeze distributions become increasingly non-normal approaching the Gulf Coast due to occasional freeze-free years in the historical records of these stations. However, the impact of freeze-free years at these sites is minimal. Therefore, probability estimates generated

In conclusion, a variety of methods exists which can minimize the potential damage of severe freezes (Critchfield, 1983). With proper preparation, freeze events may have negligible agricultural and economic losses.

Methodology

through mean values are valid as quantiles (non-parametric analysis) produced strikingly similar results. The parametric methodology is retained throughout the analysis as it allows for the greatest degree of statistical flexibility while still retaining physical meaning.

Probabilities for the first fall freeze and the last spring freeze were calculated for the 10%, 30%, 50%, 70%, and 90% probability (risk) levels for each station. Each level was then calculated for four temperature thresholds; 36°F, 32°F, 28°F, and 26°F, which estimate risk values in “light frosts” to “severe (killing) freeze” categories. In addition, the mean (50%) frost-free duration (growing season) is calculated for every station.

Because recent climatological trends are incorporated into the data, a greater degree of confidence is associated with the freeze risk values of this regional update. Regional maps are presented which display the freeze patterns at each temperature threshold for the 10%, 50% and 90% risk levels. In the fall, the dates shown indicate the probability of a freeze occurring *on or after* that date. In the spring, the dates shown indicate the probability of a freeze occurring *on or before* that date.

Due to the complexity of localized topographical features, detailed variations in the freeze distributions are somewhat generalized. Therefore, tables are added which detail the freeze risk for each station used in the analysis.

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Citations

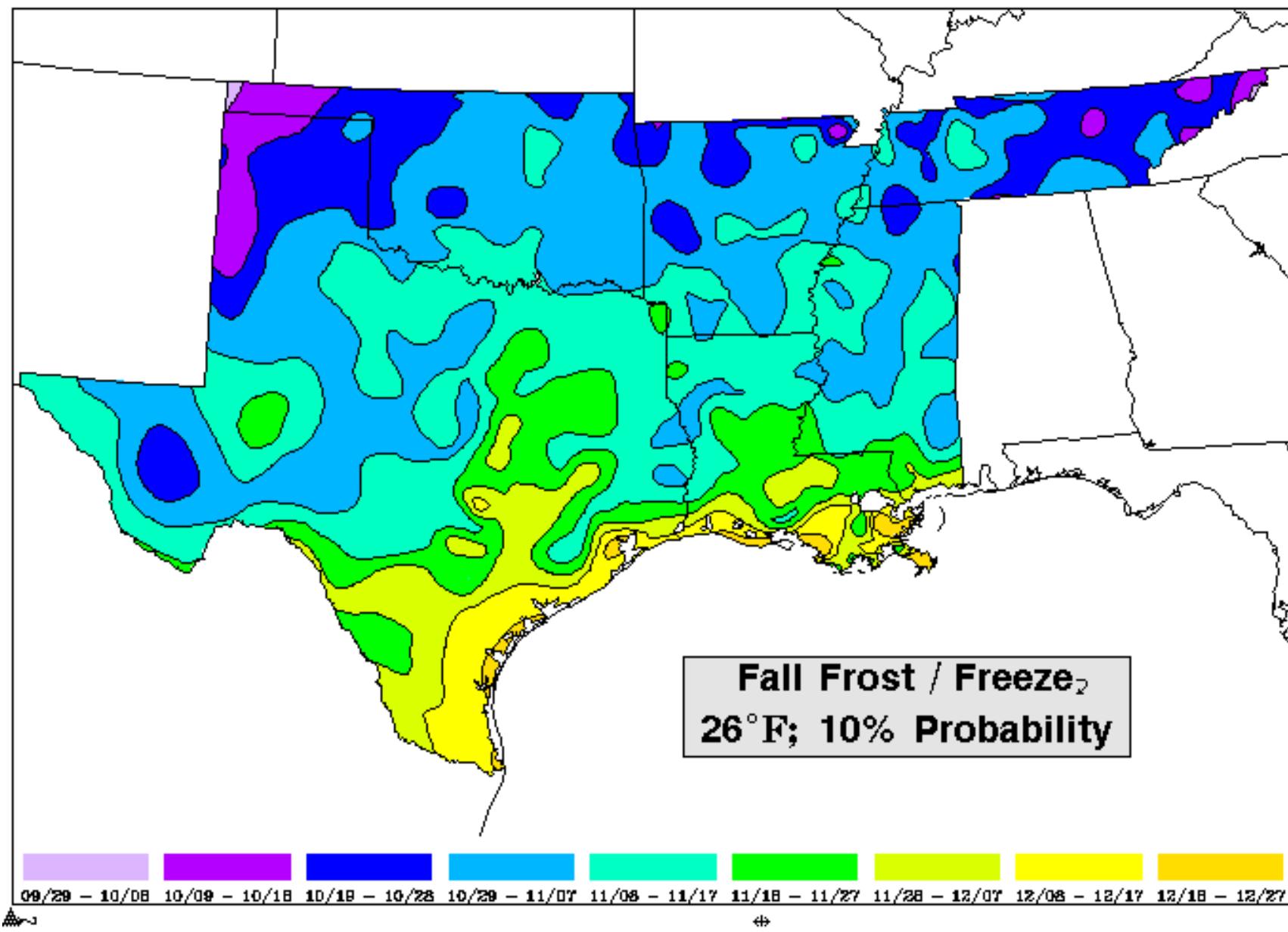
- Crutchfield, H.J., 1983. *General Climatology*. 4th Edition, Prentice-Hall, Inc., Englewood Cliffs, New Jersey 07632.
- Cry, G.W., 1968. *Freeze Probabilities in Louisiana*, Louisiana Cooperative Extension Publication 531, Louisiana State University, Baton Rouge, LA.
- Downton, M.W. and Miller, K.A., 1993. *The Freeze Risk to Florida Citrus, Part II: Temperature Variability and Circulation Patterns*. Journal of Climate. 6:364–372.
- Eichhorn, N.D., Rudd, R.D., and Calvin, L.D., 1961. *Estimating Freeze Dates for Low Temperatures in Oregon*, Oregon Agricultural Experiment Station Bulletin 581, Corvallis, OR.
- Karl, T.T., G. Kukla, and J. Gavin, 1984. *Decreasing Diurnal Temperature Range in the United States and Canada From 1941 Through 1980*. Journal of Climate and Applied Meteorology. 23:11:1489–1504.
- Leathers, D.J. B. Yarnal, and M.A. Palecki, 1991. *The Pacific/North American teleconnection Pattern and United States Climate. Part I: Regional temperature and Precipitation Associations*. Journal of Climate. 4:517–528.
- Michaels, P.J., 1991. *Frost & Freezes*. Southeastern Climate Review. Spring, 2;4:3–14.
- Miller, K.A. and M.W. Downton, 1993. *The Freeze Risk to Florida Citrus, Part I: Investment Decisions*. Journal of Climate. 6:354–363.
- National Climatic Data Center, 1988. *Freeze/Frost Data*. National Oceanic and Atmospheric Administration. Climatography of the U.S. NO. 20, Supplement No. 1.
- Proebsting, E.L., Jr., and Mills, H.H., 1978. *Low Temperature Resistance of Developing Flower Buds of Six Deciduous Fruit Species*. Journal of the American Horticultural Society. 103:192–198.
- Rogers, J.C., and Rohli, R.V., 1991. *Florida Citrus Freezes and Polar Anticyclones in the Great Plains*. Journal of Climate. 4:11:1103–1113.
- Sabin, T.E., and Shulman, M.D., 1985. *A Statistical Evaluation of the Efficiency of the Climatic Normal as a Predictor*. Journal of Climate. 5:63–77.
- Stewart, T.R., Katz, R.W., and Murphy, A.H., 1984. *Value of Weather Information: A Descriptive Study of the Fruit–Frost Problem*. Bulletin of the American Meteorological Society. 65:2:126–137.
- Suckling, P.W., 1986. *Fluctuations of Last Spring–Freeze Dates in the Southeastern United States*. Physical Geography. 7:3:239–245.
- Thom, H.C.S., 1959. *The Distribution of Freeze–Date and Freeze–Free Period for Climatological Series With Freezeless Years*. Monthly Weather Review. 87:136–144.
- Vestal, C.K., 1971. *First and Last Occurrences of Low Temperatures During the Cold Season*. Monthly Weather Review. 99:650–652.
- Wendland, W.M., 1987. *Prominent November Coldwaves in the North Central United States Since 1901*. Bulletin of the American Meteorological Society. 68:6:616–619.

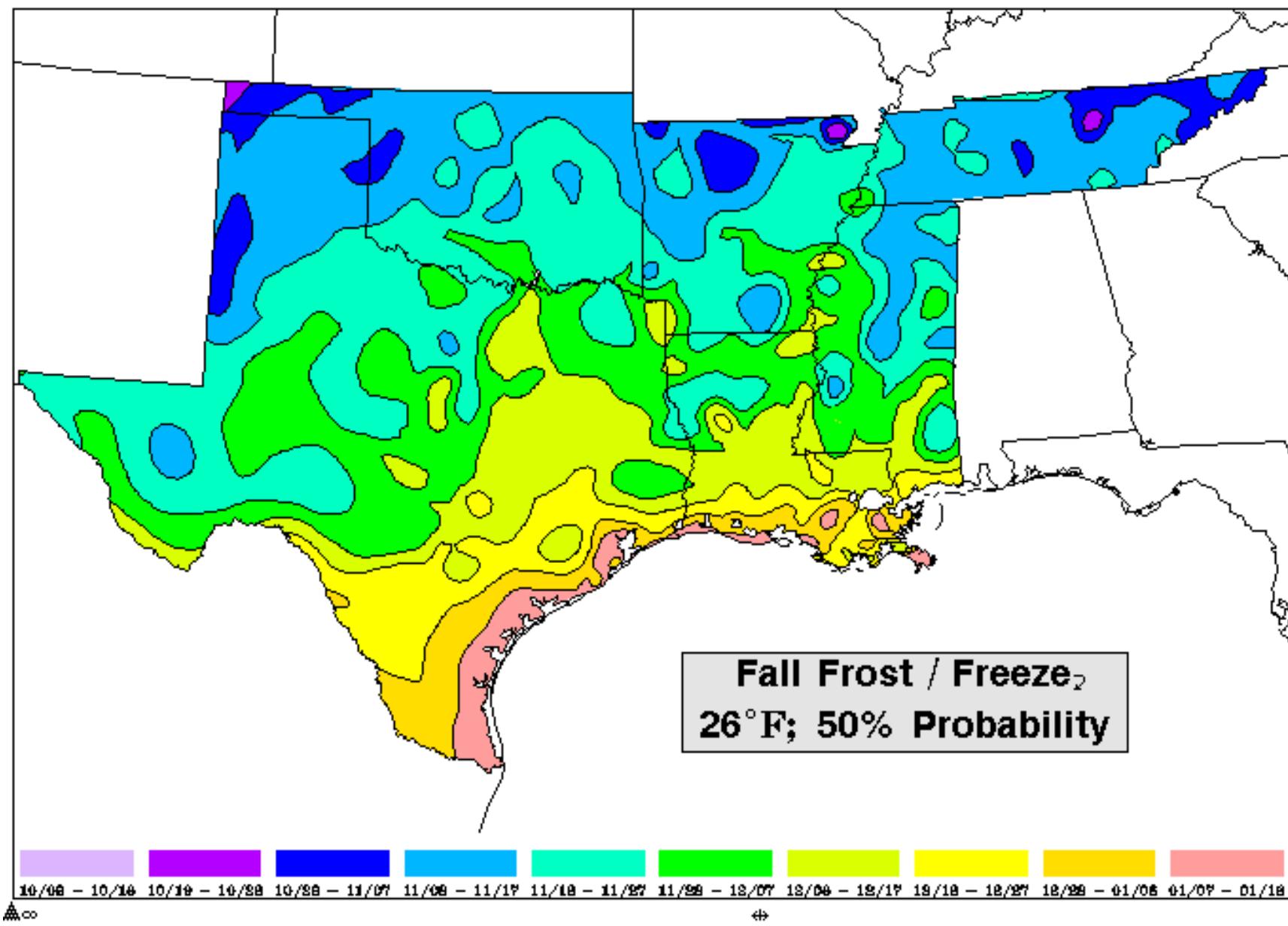
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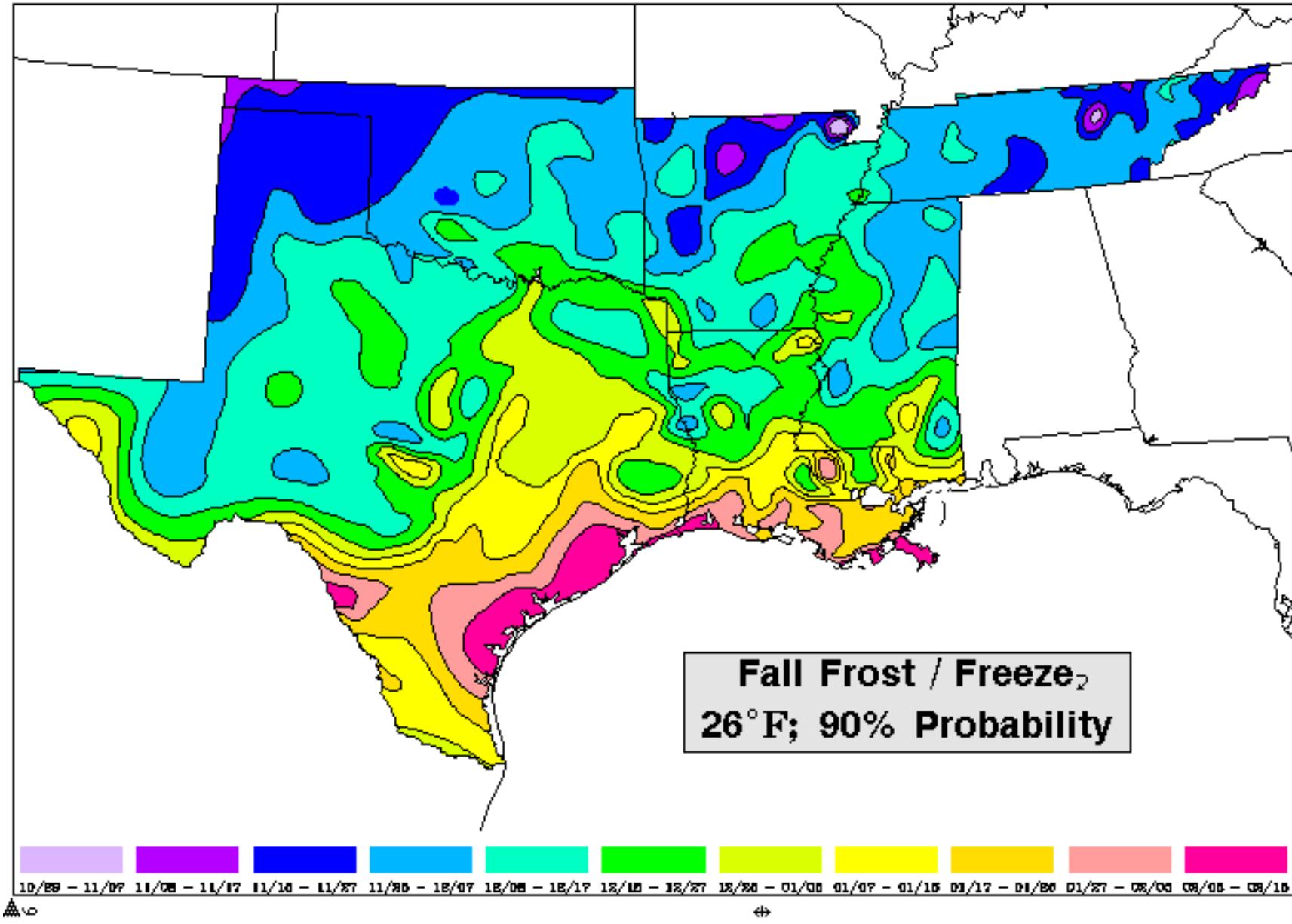
The authors wish to thank the SRCC staff for assistance in document production. Special thanks go to Jeffrey W. Hardy for programming assistance and Robert V. Rohli, Robert A. Muller, and Keith G. Henderson for editorial comments.

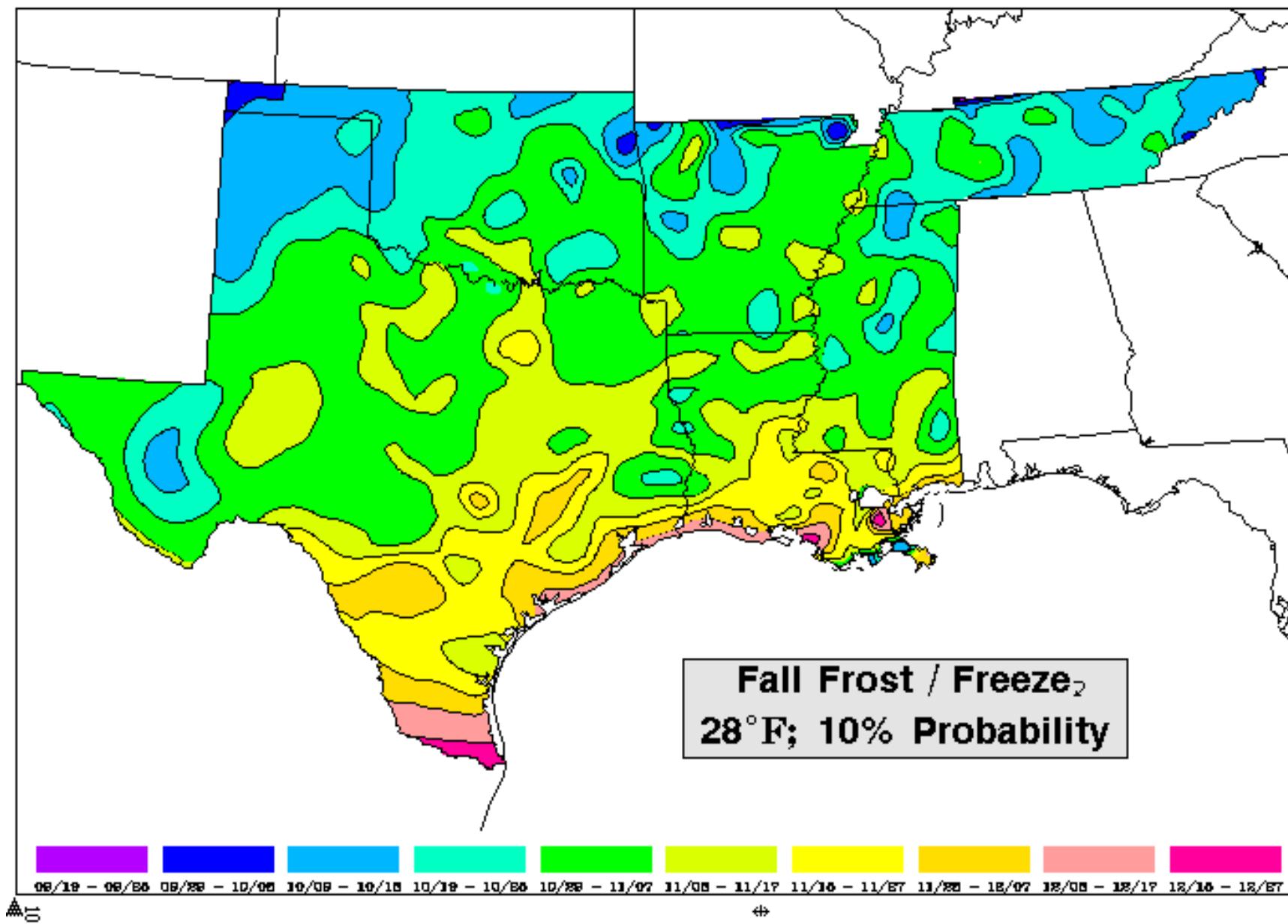
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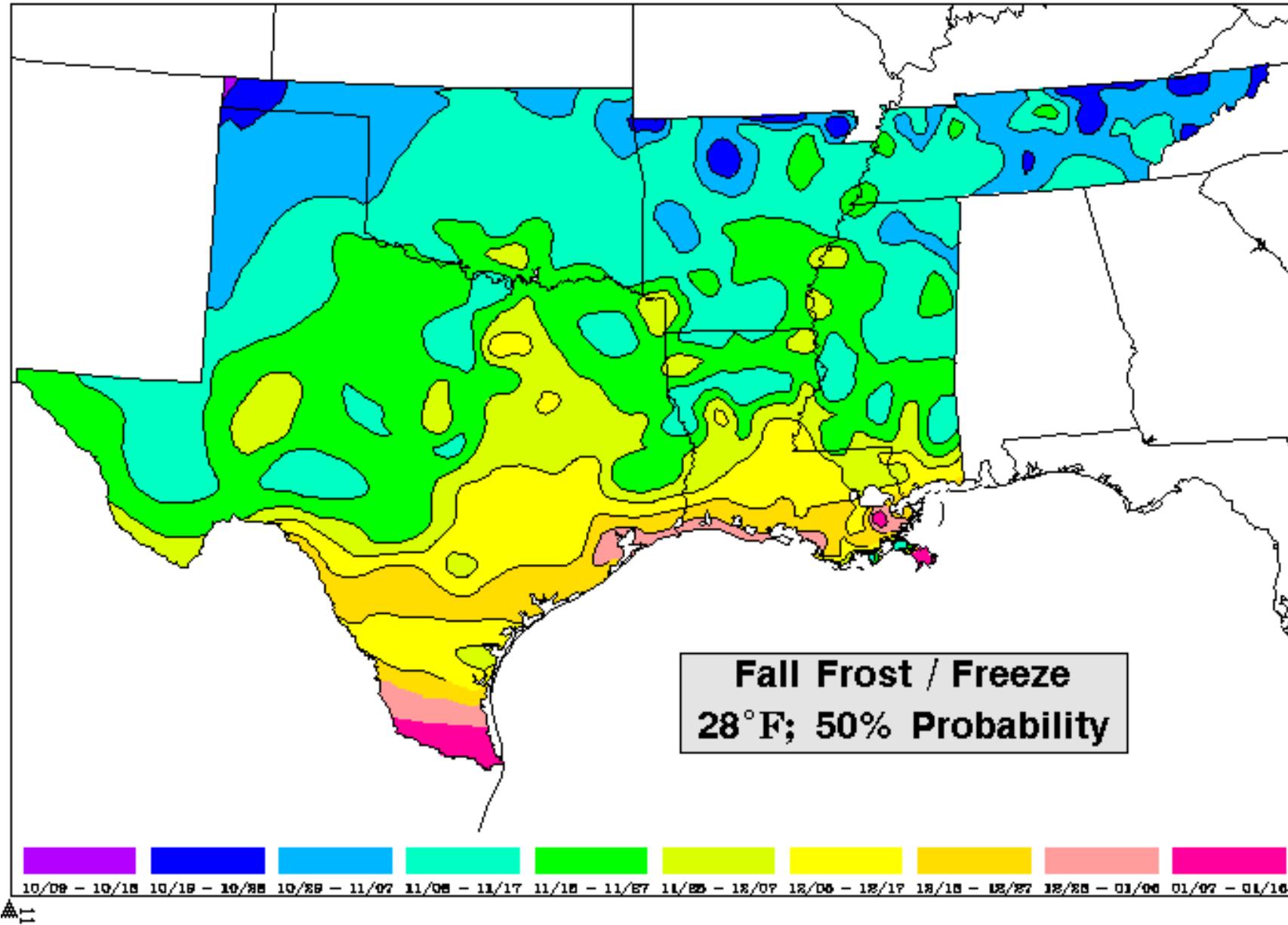
Regional Frost / Freeze Maps – Fall –

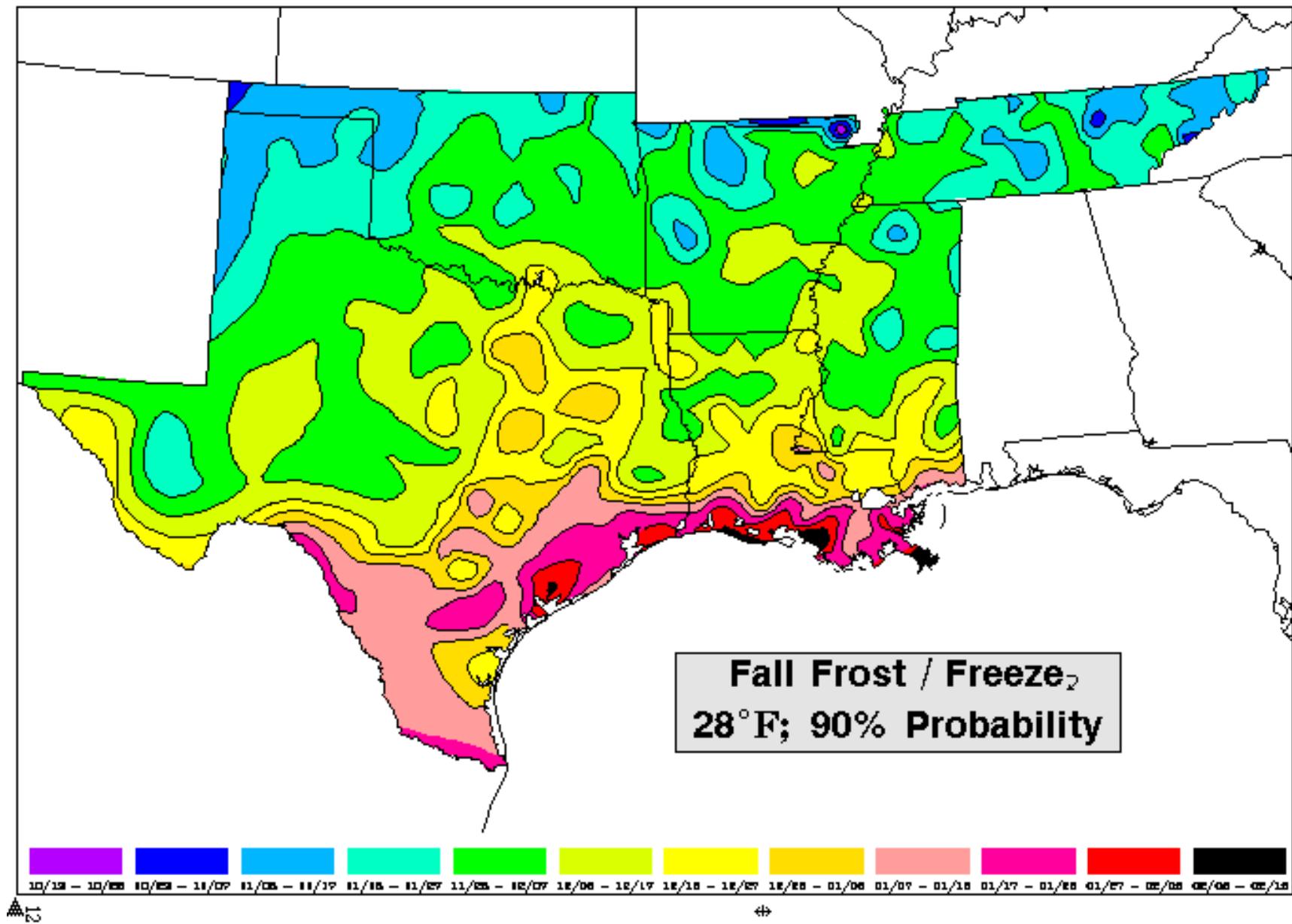


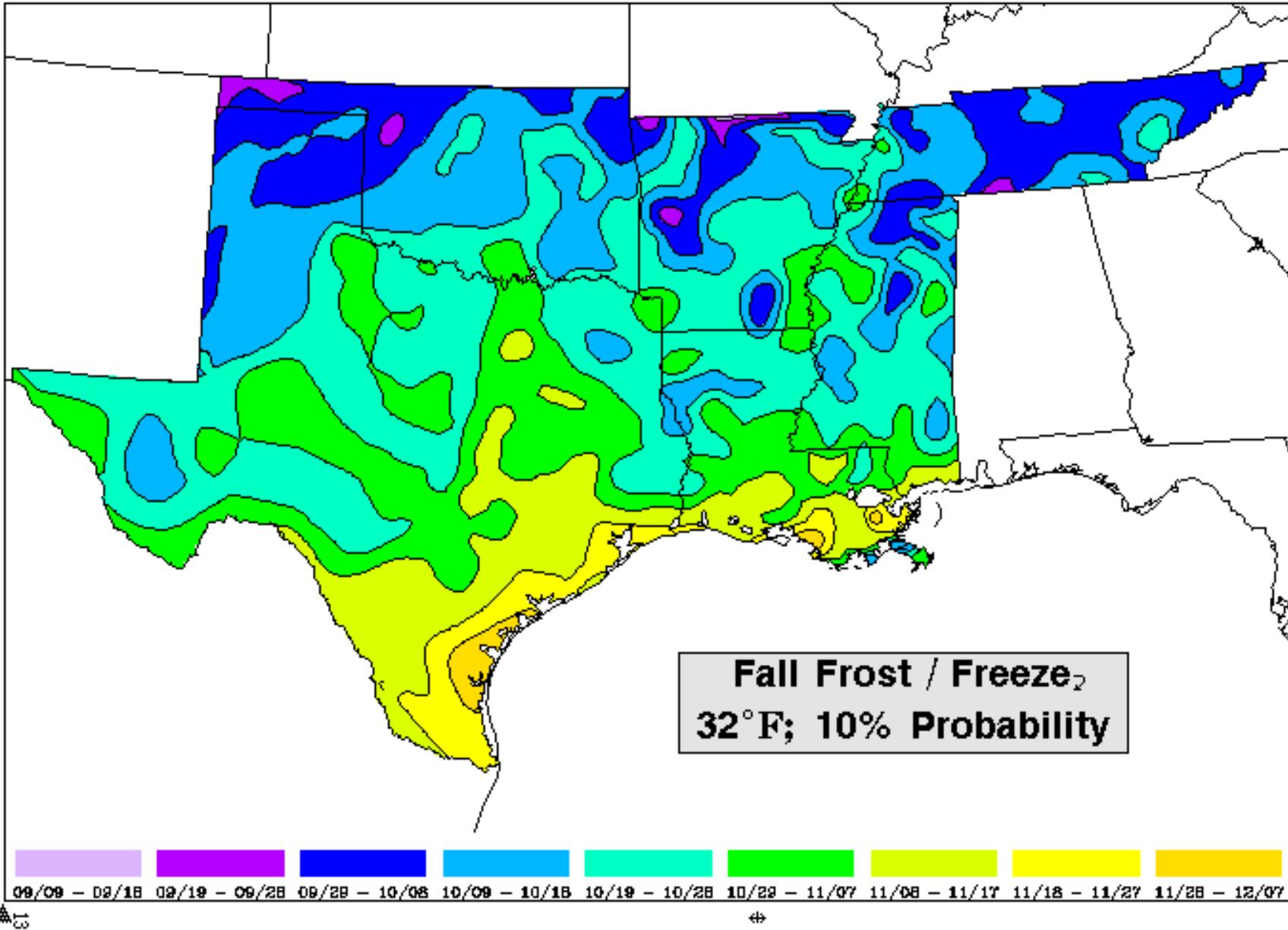


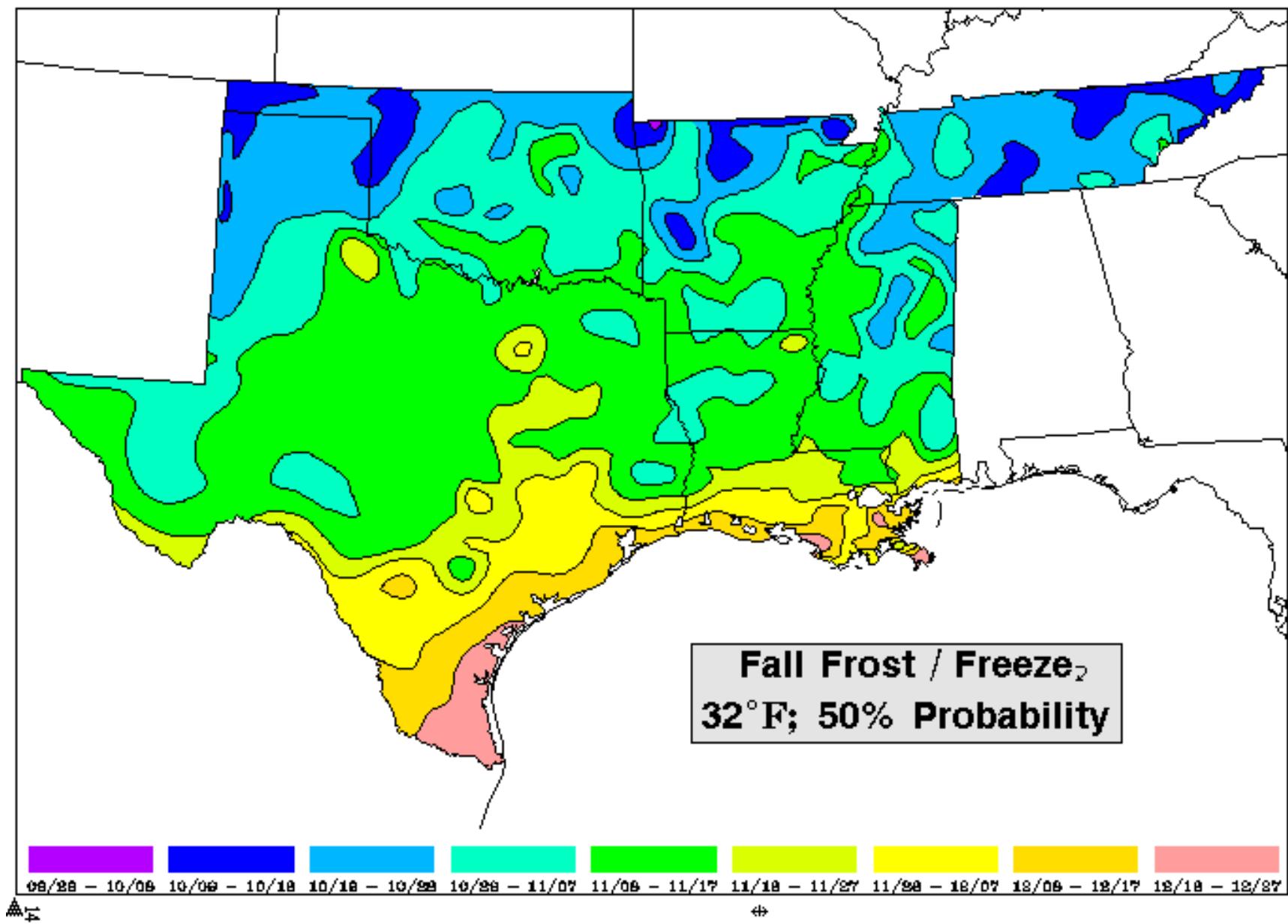


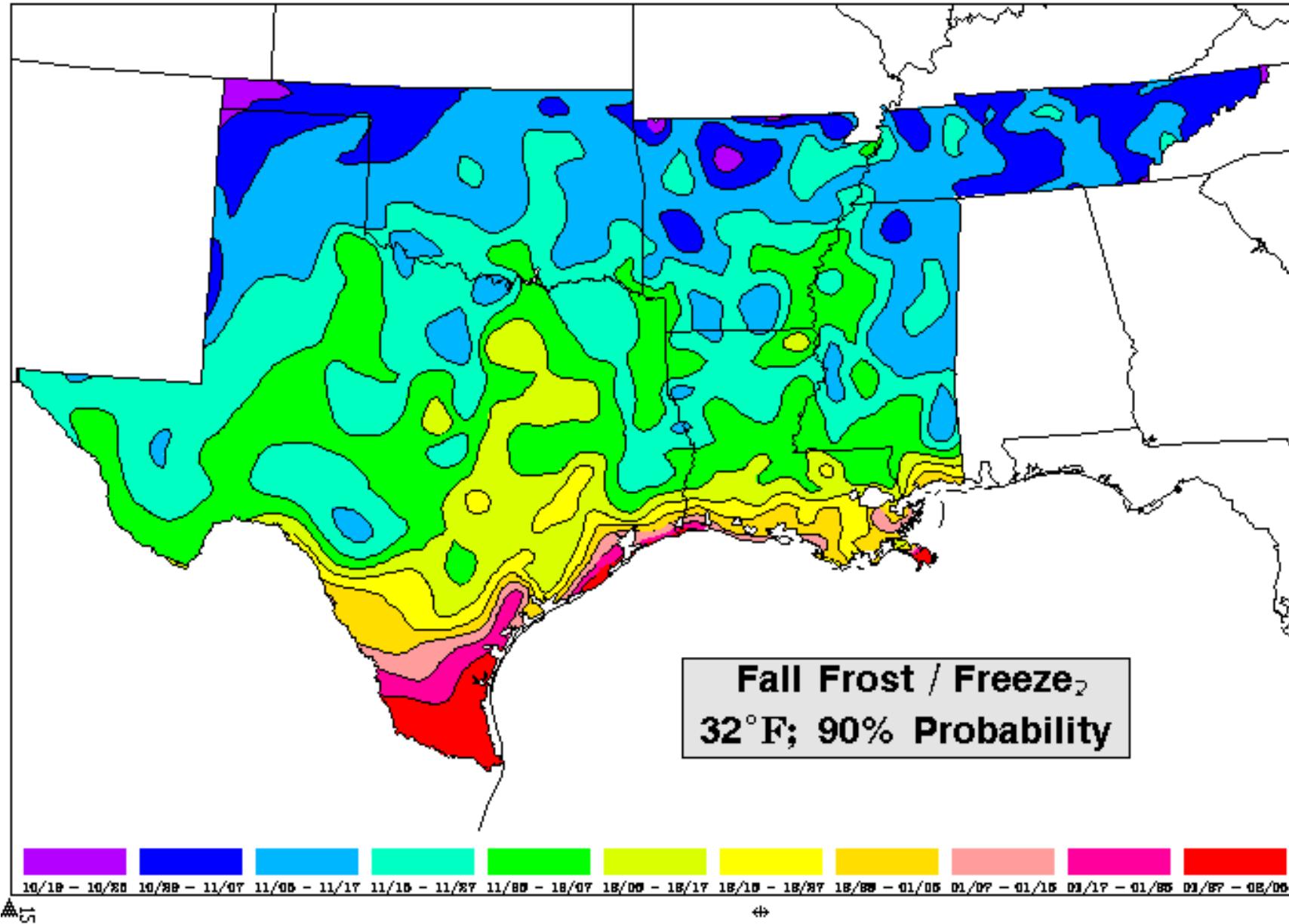


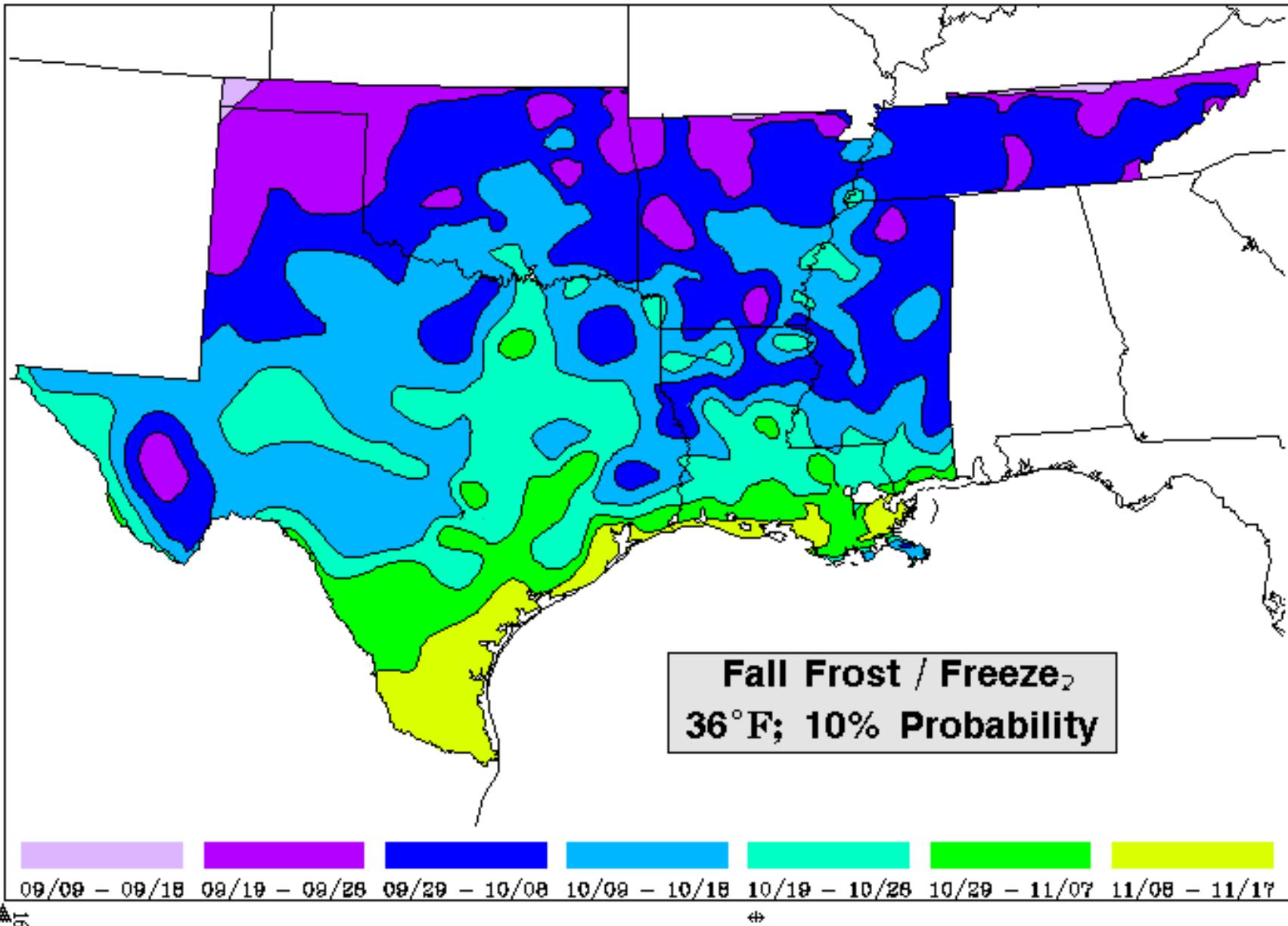




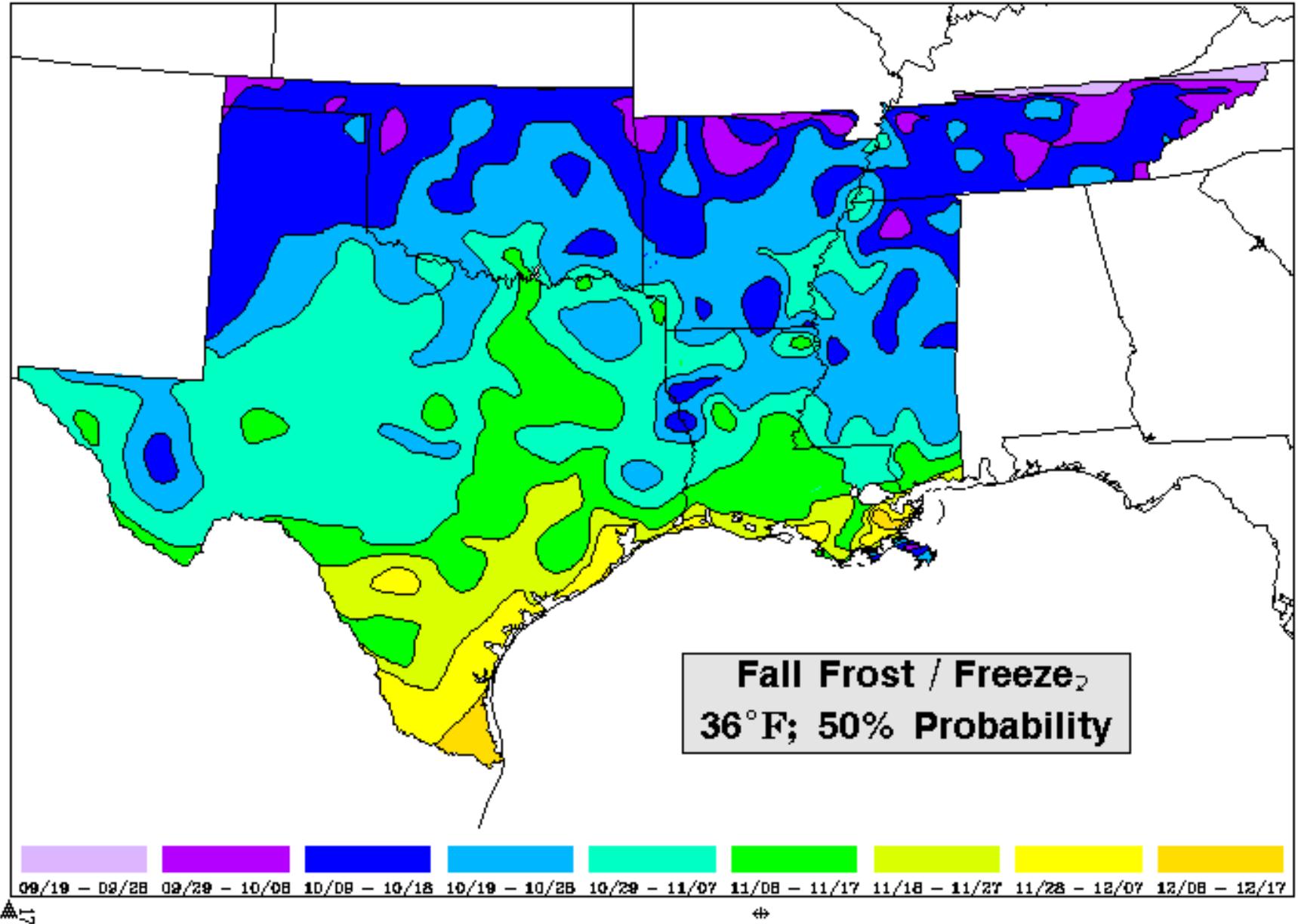


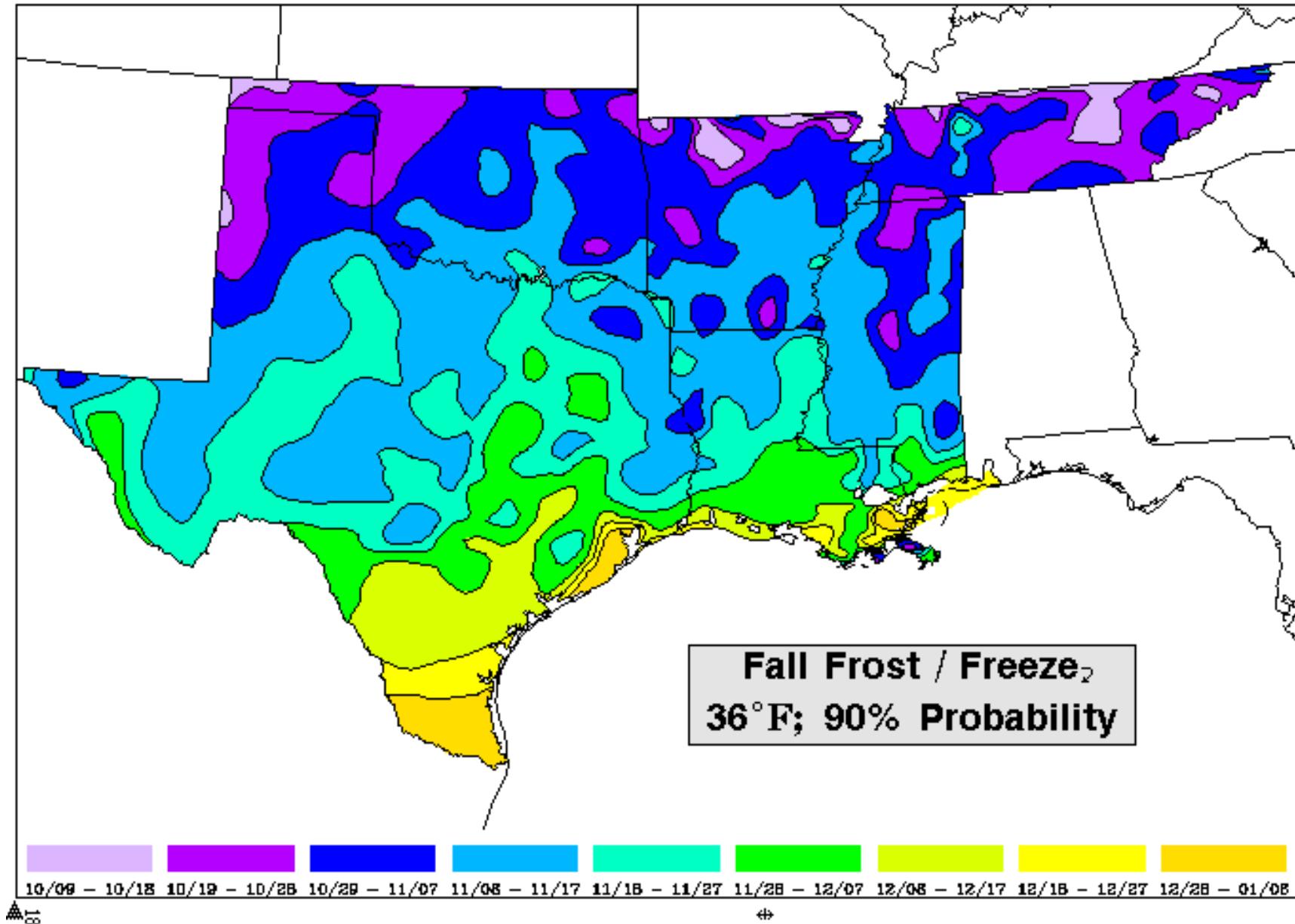






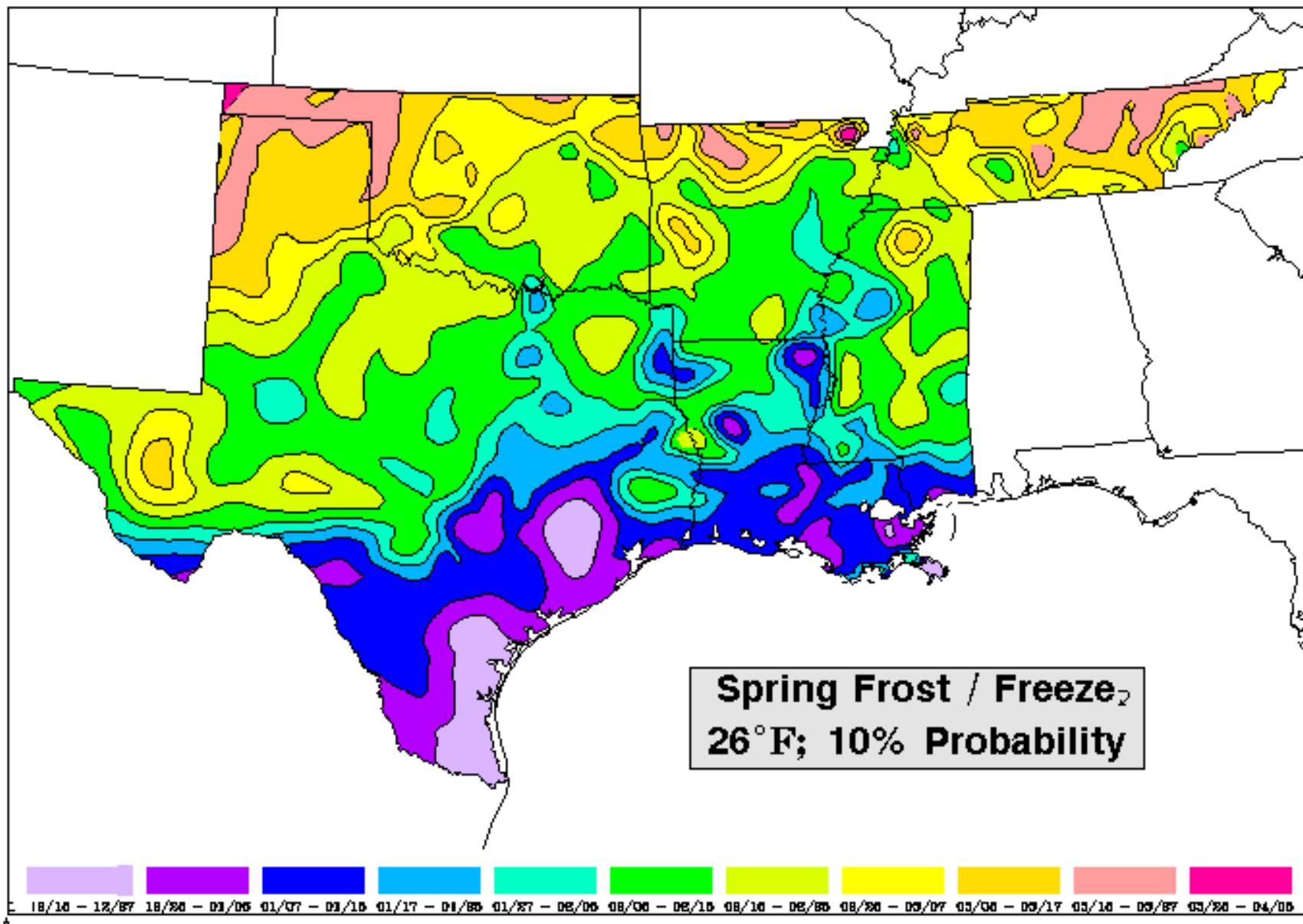
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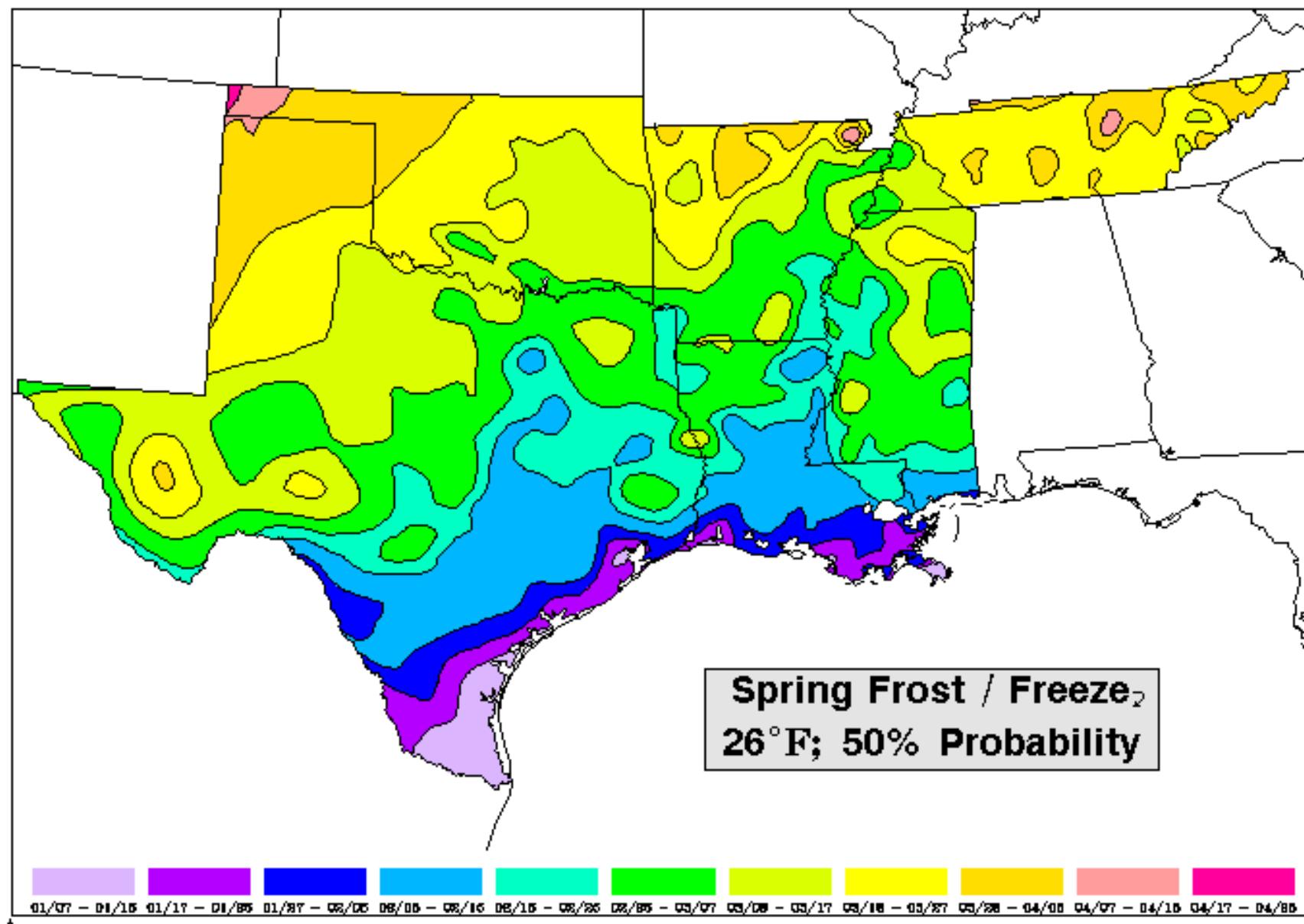
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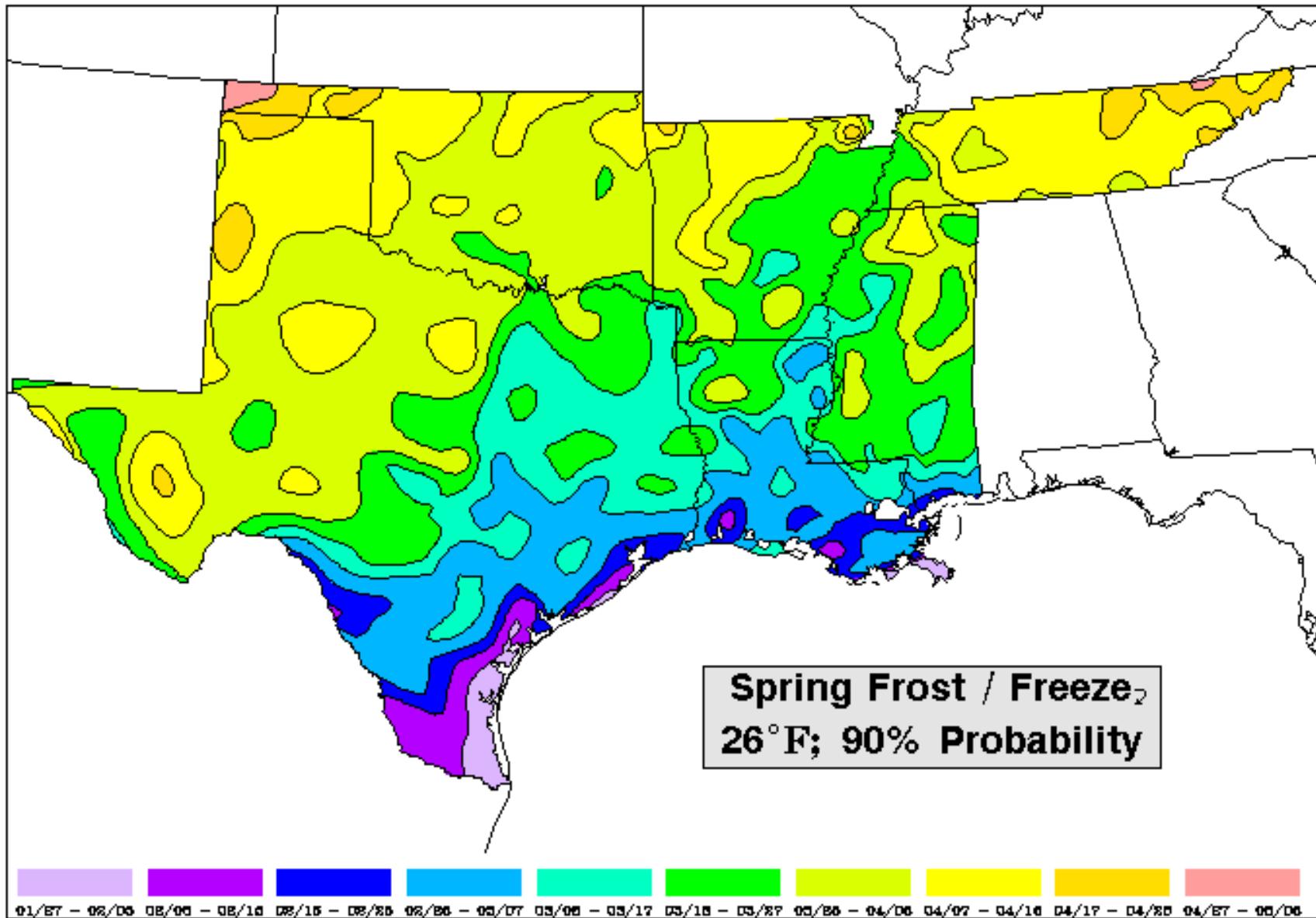
Regional Frost / Freeze Maps – Spring –

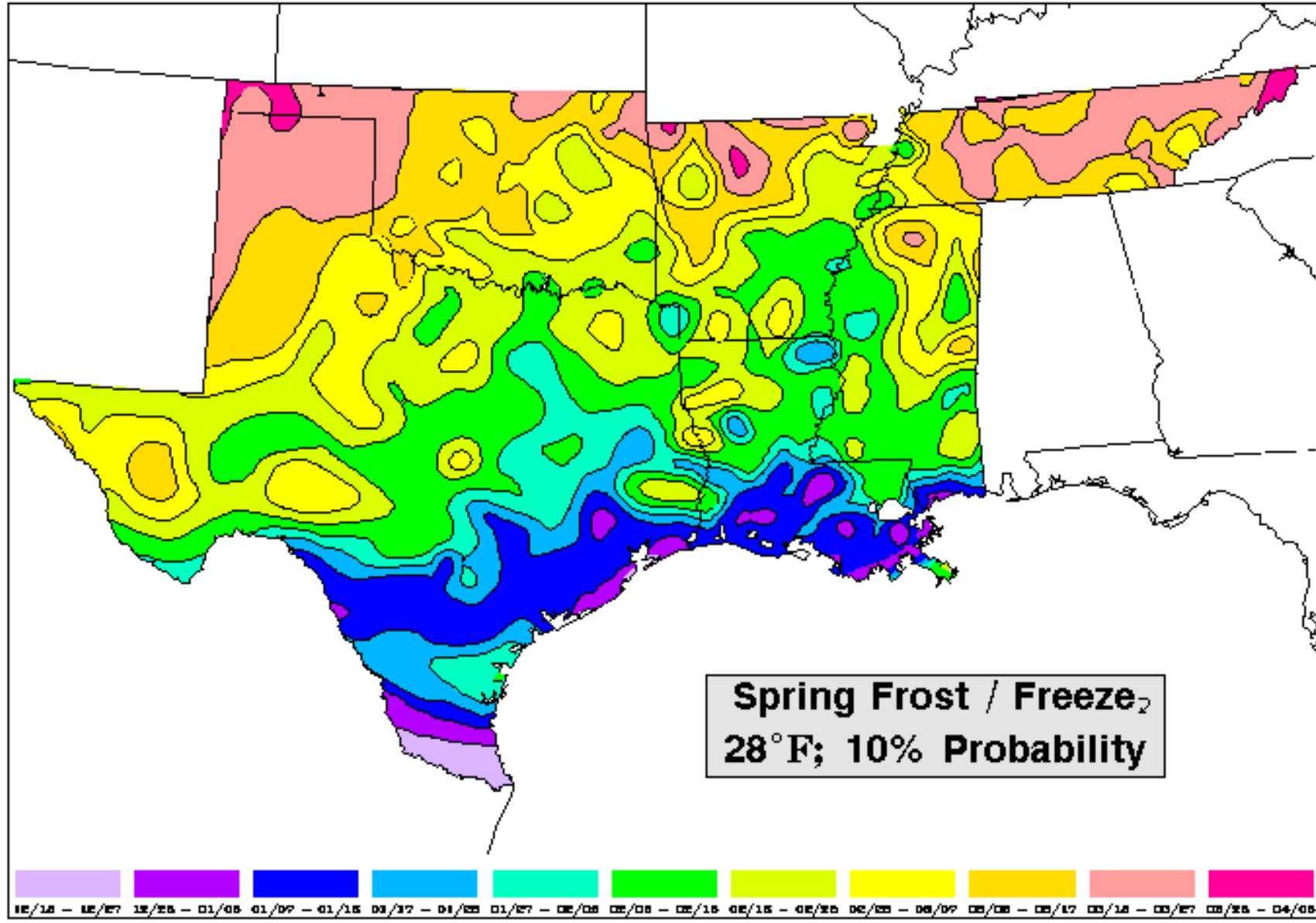


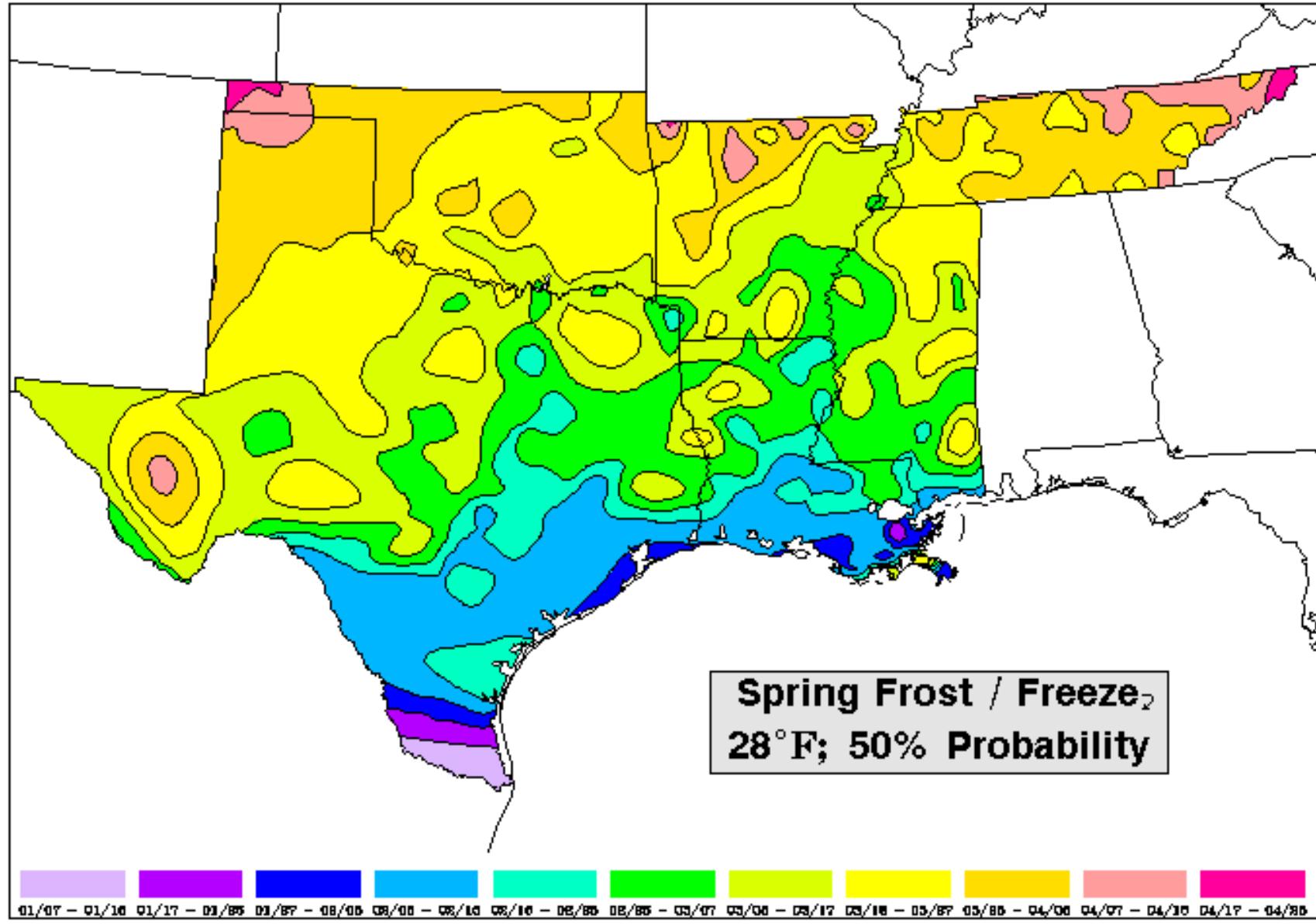
Map

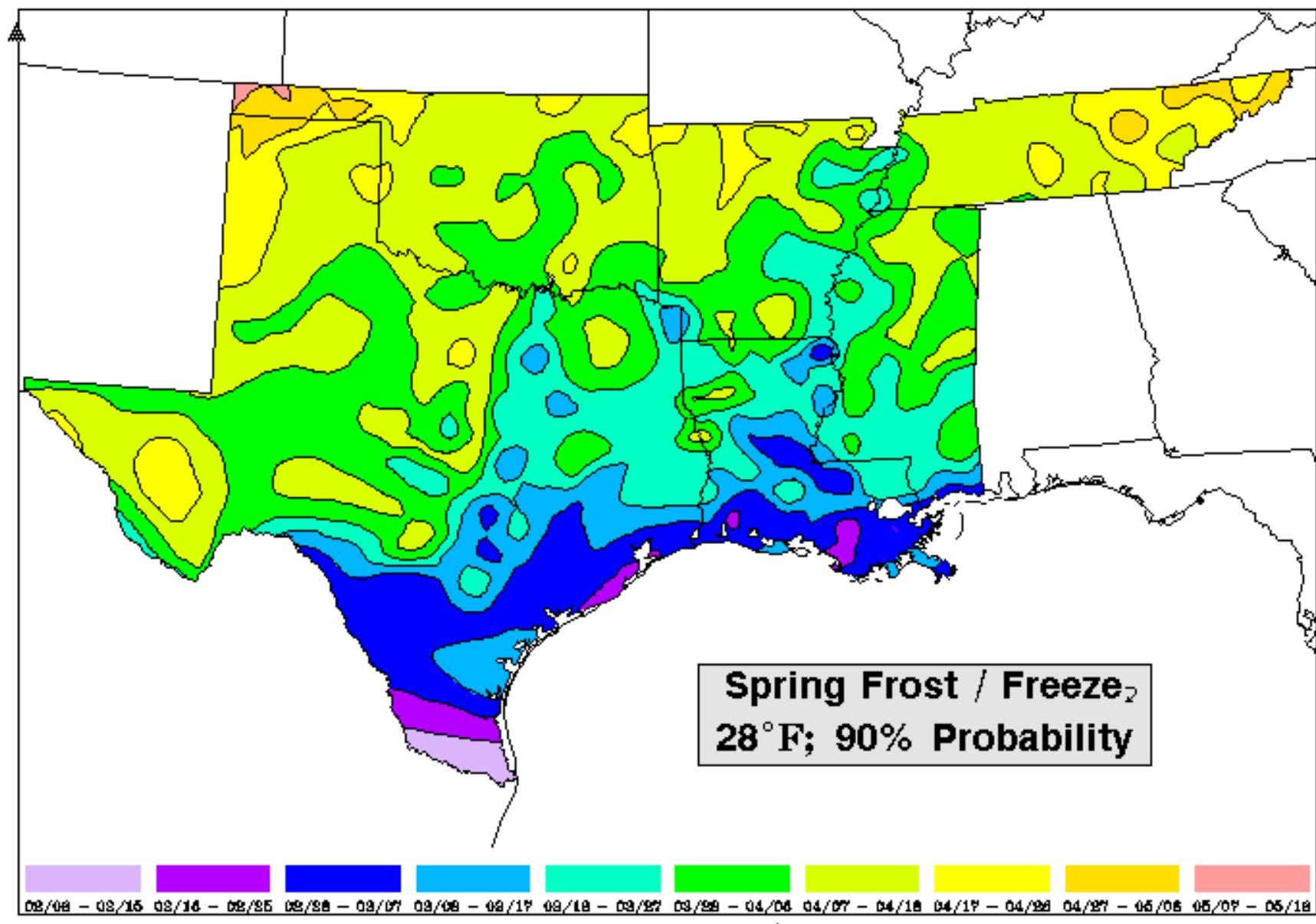
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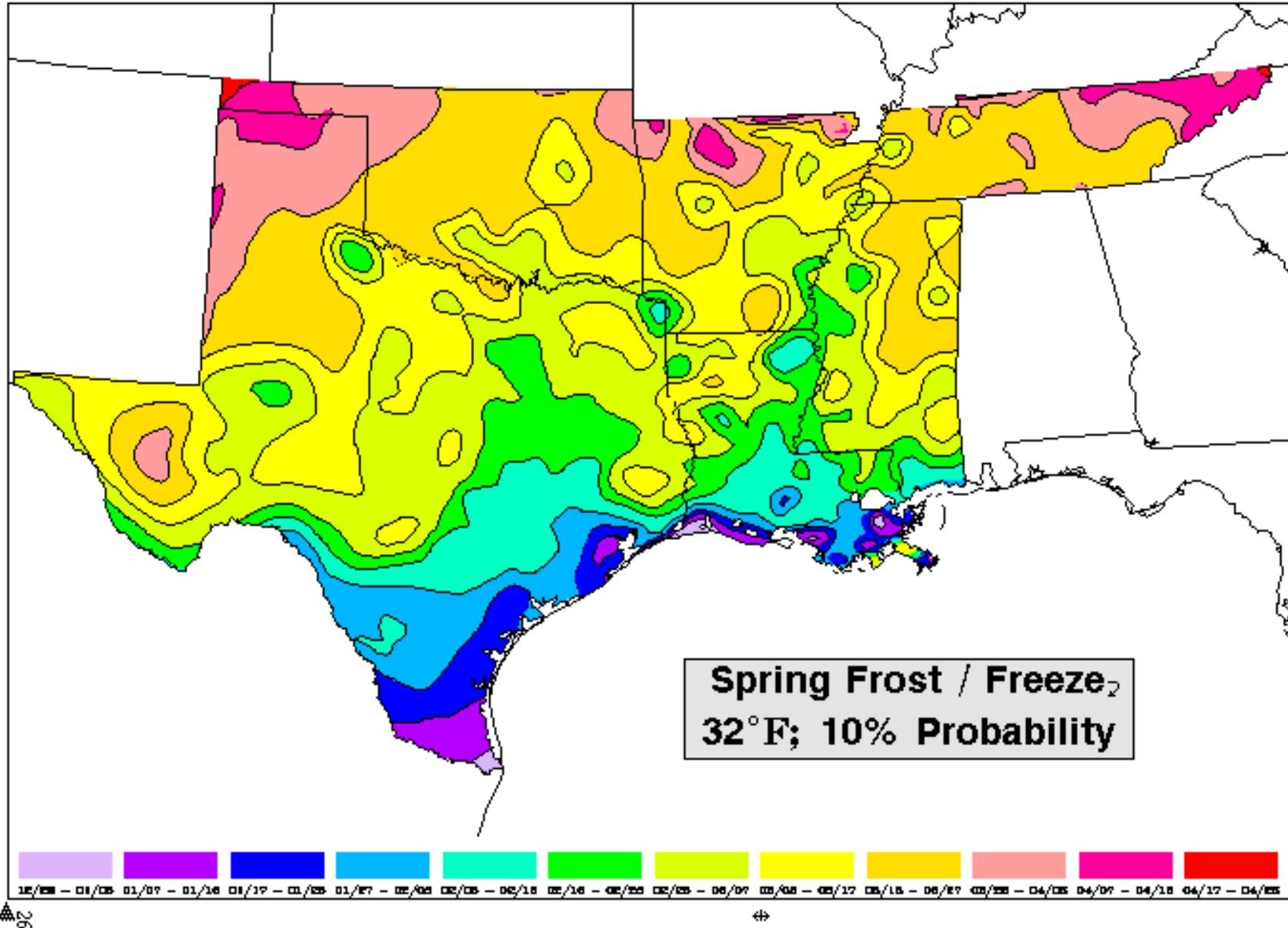


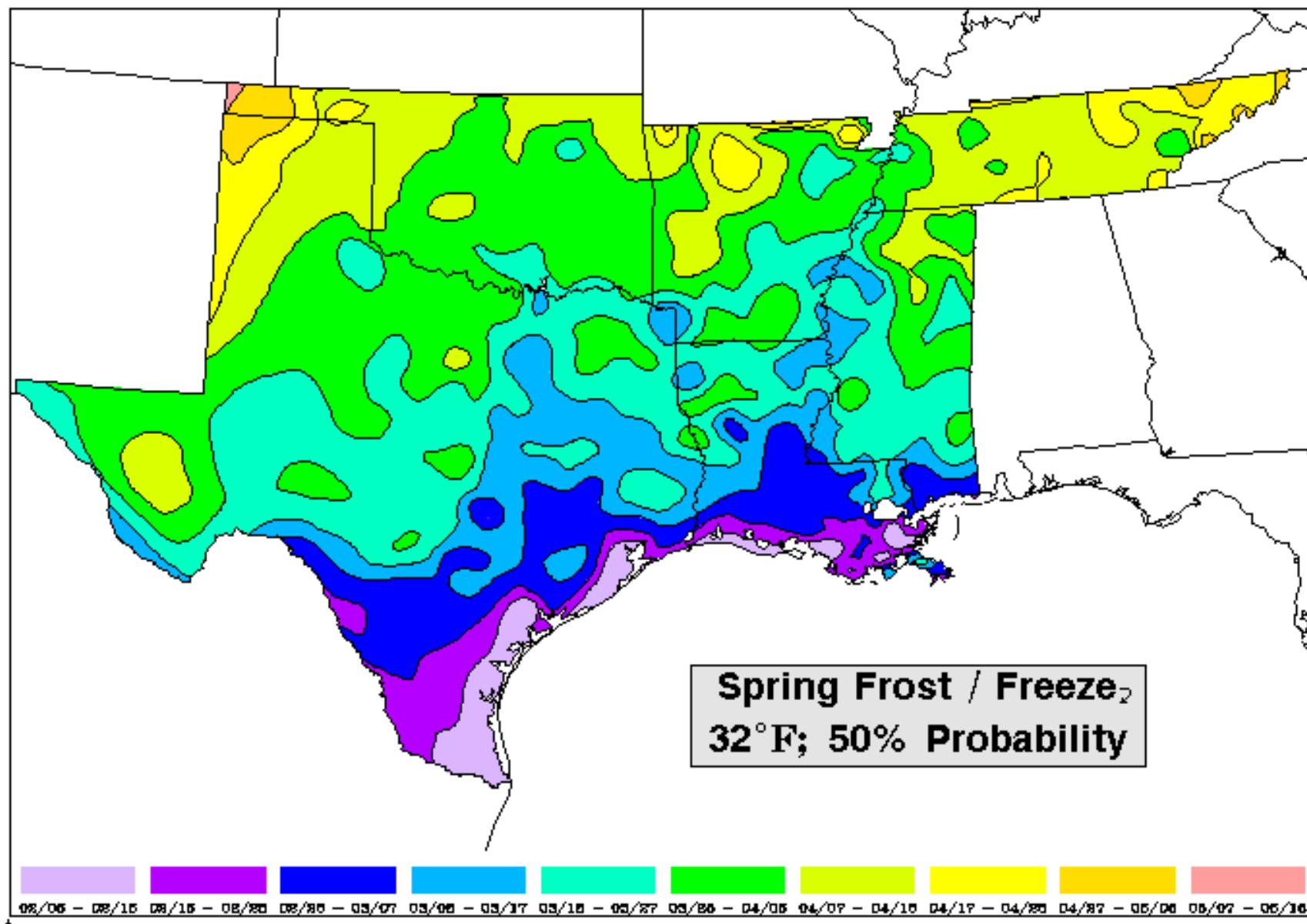


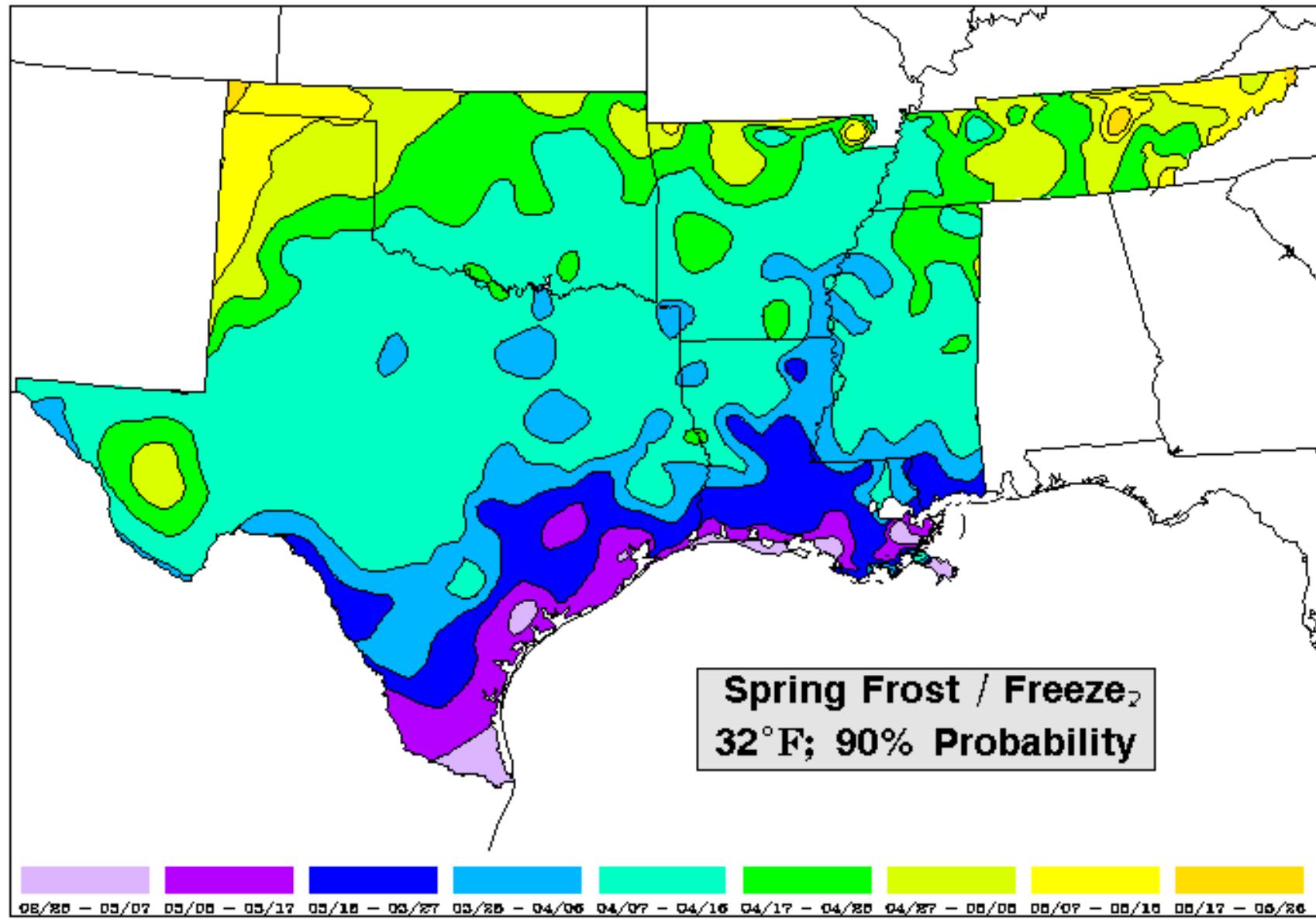


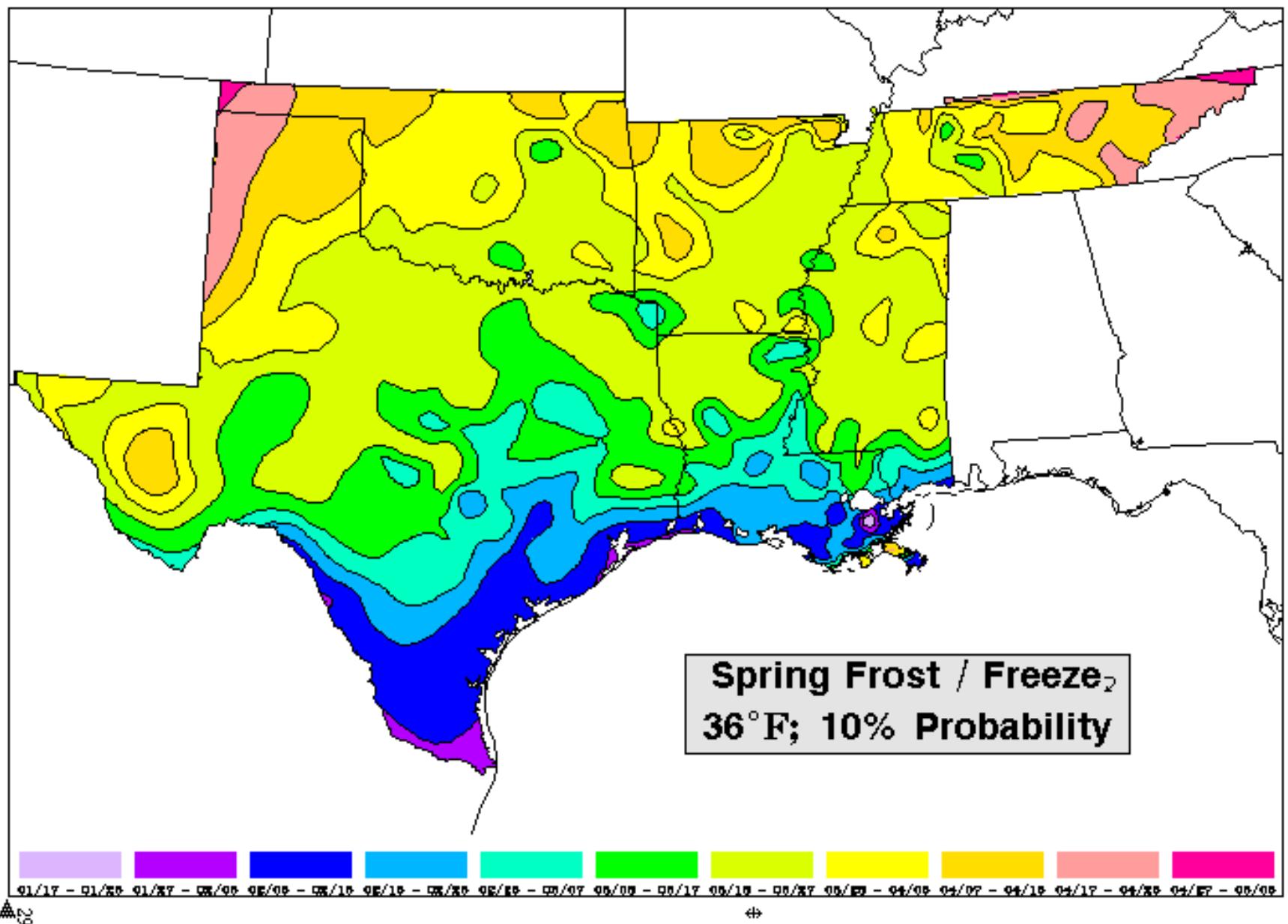


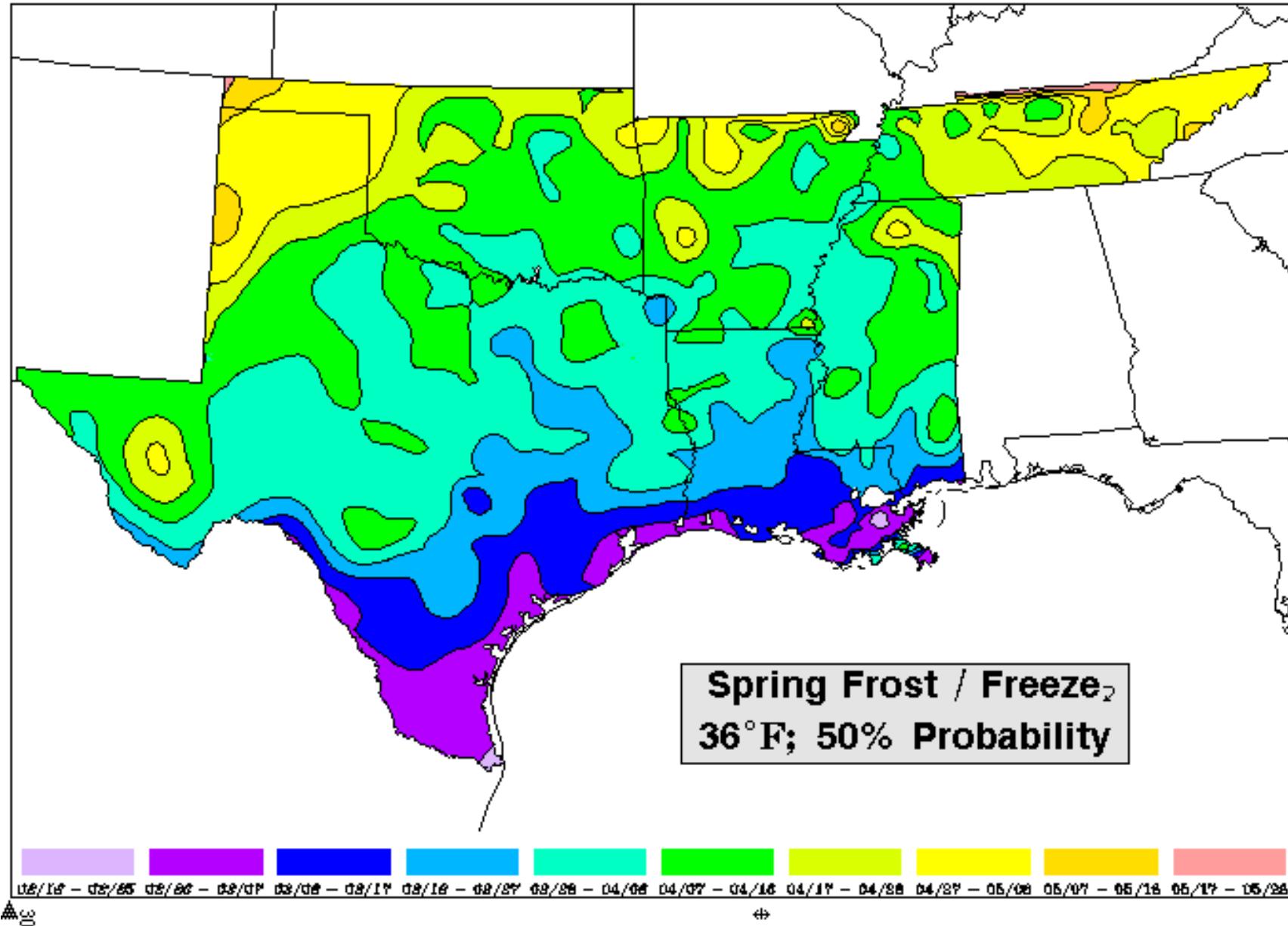


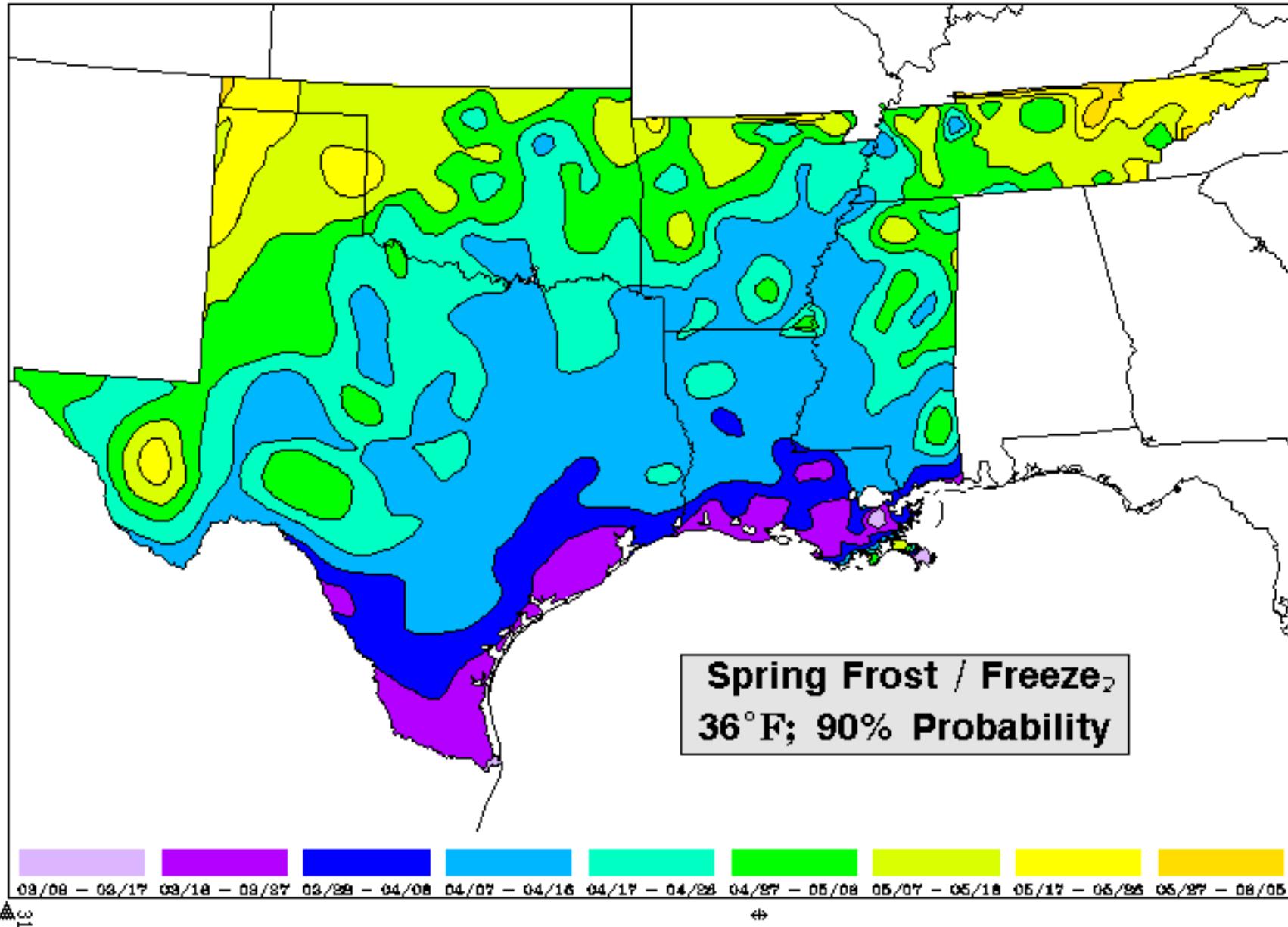












Frost / Freeze Analysis in the Southern Climate Region

Tabulated Frost / Freeze Data by Station

Frost / Freeze Analysis in the Southern Climate Region

Arkansas

STATION		ST	ID	ELEV	LAT	LON	CD	County				
ALUM FORK		AR	0130	780	34.80	-92.87	5	SALINE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/12	10/22	10/26	11/04	11/11		03/25	04/05	04/08	04/10	04/16	201
32F	10/25	11/05	11/10	11/12	11/19		03/17	03/24	04/03	04/07	04/15	221
28F	11/05	11/12	11/16	11/24	12/04		02/21	03/08	03/15	03/22	04/03	246
26F	11/09	11/18	11/25	12/03	12/14		02/14	03/05	03/09	03/18	03/25	261
ARKADELPHIA 2 N		AR	0220	200	34.15	-93.05	8	CLARK				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/04	10/17	10/23	10/28	11/05		03/27	04/05	04/08	04/12	04/17	198
32F	10/12	10/22	10/31	11/07	11/14		03/17	03/25	04/03	04/08	04/12	211
28F	11/04	11/10	11/14	11/20	12/06		02/22	03/08	03/15	03/22	04/05	244
26F	11/05	11/14	11/21	11/30	12/09		02/14	02/28	03/07	03/15	04/05	259
BATESVILLE LIVESTOCK		AR	0458	570	35.82	-91.78	3	INDEPENDENCE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/02	10/05	10/10	10/17	10/30		04/05	04/10	04/15	04/24	05/03	178
32F	10/11	10/18	10/24	10/28	11/05		03/23	04/01	04/06	04/12	04/19	201
28F	10/28	11/06	11/12	11/16	11/30		03/07	03/18	03/28	04/04	04/12	229
26F	11/04	11/09	11/13	11/17	11/30		03/02	03/15	03/21	03/29	04/08	237
BLYTHEVILLE		AR	0806	250	35.92	-89.90	3	MISSISSIPPI				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/17	10/24	10/28	11/04	11/12		03/23	04/01	04/07	04/10	04/16	204
32F	10/24	11/04	11/13	11/17	11/29		03/11	03/19	03/26	04/06	04/14	232
28F	11/05	11/13	11/16	11/23	12/05		02/16	03/06	03/14	03/16	03/25	247
26F	11/05	11/17	11/24	12/03	12/16		02/14	02/26	03/04	03/14	03/22	265
BRINKLEY		AR	0936	200	34.88	-91.18	6	MONROE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/06	10/15	10/21	10/25	11/10		03/19	03/31	04/07	04/10	04/15	197
32F	10/21	10/29	11/04	11/11	11/16		03/11	03/19	03/30	04/06	04/13	219
28F	11/04	11/09	11/15	11/22	12/03		02/15	03/04	03/12	03/18	04/12	248
26F	11/07	11/14	11/21	11/29	12/15		02/04	02/27	03/05	03/15	03/23	261
CAMDEN 1		AR	1152	120	33.60	-92.82	8	OUACHITA				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/05	10/16	10/23	10/28	11/12		03/24	03/29	04/07	04/10	04/15	199
32F	10/24	11/04	11/08	11/12	11/19		03/12	03/20	03/25	04/02	04/12	228
28F	11/05	11/12	11/16	11/23	12/05		02/14	02/26	03/07	03/16	04/05	254
26F	11/07	11/14	11/20	12/02	12/14		02/09	02/17	02/27	03/07	03/22	266

Frost / Freeze Analysis in the Southern Climate Region

Arkansas

STATION	ST	ID	ELEV	LAT	LON	CD	County
CONWAY	AR	1596	310	35.08	-92.47	5	FAULKNER
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/01	10/13	10/18	10/25	11/12		03/28 04/07 04/10 04/13 04/24 191
32F	10/19	10/25	11/03	11/06	11/14		03/18 03/28 04/04 04/07 04/15 213
28F	10/25	11/05	11/10	11/15	11/26		03/06 03/09 03/18 03/24 04/03 237
26F	11/05	11/12	11/16	11/23	12/04		02/13 03/06 03/09 03/14 03/25 252
CORNING	AR	1632	300	36.40	-90.58	3	CLAY
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/01	10/05	10/10	10/14	10/27		03/25 04/09 04/14 04/21 05/09 179
32F	10/11	10/20	10/25	11/02	11/10		03/18 03/25 04/06 04/10 04/16 202
28F	10/26	11/03	11/09	11/15	11/28		02/28 03/16 03/25 03/30 04/07 229
26F	10/29	11/07	11/15	11/24	12/05		02/15 03/10 03/16 03/22 03/31 244
CROSSETT	2	SSE	AR	1730	180	33.12	-91.95 9 ASHLEY
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	09/30	10/06	10/13	10/20	10/29		03/27 03/31 04/06 04/10 04/15 190
32F	10/10	10/20	10/30	11/04	11/14		03/18 03/25 03/30 04/06 04/15 214
28F	10/23	11/08	11/14	11/19	12/02		02/23 03/07 03/19 03/24 04/06 240
26F	11/04	11/13	11/16	11/28	12/08		02/15 02/28 03/07 03/11 03/23 254
DE QUEEN	AR	1948	420	34.03	-94.33	7	SEVIER
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/03	10/10	10/18	10/23	11/04		03/27 04/05 04/08 04/12 04/24 193
32F	10/20	10/26	11/03	11/08	11/13		03/12 03/27 04/03 04/06 04/13 214
28F	10/29	11/06	11/12	11/21	11/29		02/23 03/08 03/22 03/25 04/07 235
26F	11/03	11/13	11/15	11/24	12/06		02/19 03/06 03/10 03/21 04/03 250
DUMAS	AR	2148	160	33.88	-91.48	9	DESHA
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/15	10/24	10/31	11/08	11/15		03/19 03/27 04/05 04/09 04/15 209
32F	10/30	11/05	11/12	11/18	12/01		02/25 03/09 03/18 03/24 04/05 239
28F	11/06	11/14	11/22	11/30	12/06		02/09 02/21 03/05 03/14 03/24 262
26F	11/11	11/25	12/03	12/08	12/15		02/07 02/13 02/24 03/04 03/22 282
EL DORADO	FAA	AIRPORT	AR	2300	250	33.22	-92.80 8 UNION
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/07	10/19	10/24	11/01	11/12		03/19 03/28 04/05 04/09 04/15 202
32F	10/25	11/02	11/06	11/13	11/19		03/11 03/22 03/28 04/04 04/12 223
28F	11/05	11/12	11/15	11/22	12/04		02/16 03/01 03/08 03/22 04/03 252
26F	11/11	11/16	11/22	11/30	12/10		02/11 02/23 03/05 03/12 03/25 262

Frost / Freeze Analysis in the Southern Climate Region

Arkansas

STATION		ST	ID	ELEV	LAT	LON	CD	County
EUDORA		AR	2355	130	33.12	-91.27	9	CHICOT
FALL								
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	10/01	10/10	10/16	10/23	11/02		04/06	04/12 04/20 04/25 05/03 179
32F	11/03	11/11	11/14	11/22	12/02		02/23	03/08 03/19 03/25 04/05 240
28F	11/05	11/16	11/25	12/05	12/16		02/08	02/18 03/01 03/08 03/23 269
26F	11/15	11/30	12/07	12/11	12/23		01/27	02/13 02/22 03/04 03/15 288
EUREKA SPRINGS 3 WNW		AR	2356	1420	36.42	-93.78	1	CARROLL
FALL								
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	10/01	10/10	10/16	10/23	11/02		03/30	04/10 04/18 04/24 05/03 181
32F	10/14	10/23	10/27	11/06	11/11		03/21	04/01 04/09 04/12 04/21 201
28F	10/22	11/05	11/11	11/14	11/26		03/13	03/23 03/26 04/02 04/12 230
26F	11/01	11/06	11/13	11/18	11/29		03/06	03/13 03/24 03/27 04/06 234
FAYETTEVILLE EXP STN		AR	2444	1270	36.10	-94.17	1	WASHINGTON
FALL								
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	09/23	10/03	10/06	10/12	10/27		04/09	04/16 04/26 04/30 05/09 163
32F	10/06	10/13	10/19	10/25	11/06		03/31	04/08 04/14 04/19 04/26 188
28F	10/20	11/01	11/08	11/13	11/25		03/18	03/25 04/01 04/06 04/12 221
26F	10/23	11/07	11/12	11/16	11/27		03/11	03/20 03/24 03/30 04/06 233
FORT SMITH WB AIRPORT		AR	2574	450	35.33	-94.37	4	SEBASTIAN
FALL								
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	10/01	10/08	10/16	10/23	10/29		03/31	04/10 04/13 04/19 04/27 186
32F	10/19	10/24	10/31	11/07	11/13		03/21	03/27 04/04 04/06 04/12 210
28F	10/27	11/09	11/13	11/18	11/28		03/07	03/18 03/23 03/27 04/12 235
26F	11/04	11/11	11/15	11/24	12/05		02/23	03/09 03/18 03/23 04/03 242
GILBERT		AR	2794	620	35.98	-92.72	2	SEARCY
FALL								
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	09/23	10/01	10/04	10/10	10/16		04/15	04/24 04/30 05/03 05/14 157
32F	09/28	10/06	10/12	10/16	10/27		04/07	04/15 04/22 04/25 05/03 173
28F	10/13	10/21	10/25	11/04	11/12		03/27	04/05 04/09 04/12 04/18 199
26F	10/20	10/24	10/29	11/07	11/15		03/19	03/28 04/05 04/10 04/16 207
GRAVETTE		AR	2930	1260	36.43	-94.45	1	BENTON
FALL								
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	09/23	09/30	10/05	10/09	10/19		04/10	04/22 04/28 05/08 05/13 160
32F	09/27	10/05	10/12	10/19	11/01		04/01	04/10 04/16 04/22 05/01 179
28F	10/08	10/21	10/25	11/05	11/15		03/23	03/31 04/06 04/12 04/22 202
26F	10/23	11/03	11/07	11/13	11/26		03/10	03/21 03/25 04/04 04/12 227

Frost / Freeze Analysis in the Southern Climate Region

Arkansas

STATION		ST	ID	ELEV	LAT	LON	CD	County
HELENA		AR	3242	190	34.53	-90.58	6	PHILLIPS
T	10%	30%	50%	70%	90%		90%	70%
36F	10/14	10/22	10/29	11/06	11/13		03/21	03/29
32F	10/20	11/04	11/11	11/14	12/02		03/04	03/18
28F	10/29	11/09	11/14	11/22	12/04		02/14	03/07
26F	11/03	11/14	11/21	11/29	12/16		02/09	02/20
HOPE	3	NE		AR	3428	380	33.72	-93.55
SPRING								
T	10%	30%	50%	70%	90%		90%	70%
36F	10/04	10/12	10/20	11/01	11/11		03/23	03/29
32F	10/25	10/31	11/06	11/11	11/17		03/12	03/23
28F	11/01	11/12	11/14	11/22	12/05		02/17	03/06
26F	11/07	11/15	11/22	11/30	12/07		02/15	02/24
JONESBORO	4	N		AR	3734	390	35.88	-90.70
SPRING								
T	10%	30%	50%	70%	90%		90%	70%
36F	10/06	10/13	10/20	10/27	11/05		03/23	03/31
32F	10/23	11/03	11/06	11/13	11/19		03/11	03/22
28F	11/03	11/10	11/14	11/22	12/05		02/27	03/07
26F	11/05	11/14	11/21	12/03	12/11		02/15	03/03
KEO				AR	3862	230	34.60	-92.00
SPRING								
T	10%	30%	50%	70%	90%		90%	70%
36F	10/12	10/20	10/26	11/05	11/14		03/22	03/30
32F	10/25	11/03	11/10	11/15	11/21		02/28	03/19
28F	11/05	11/14	11/20	11/29	12/09		02/14	02/26
26F	11/07	11/15	11/24	12/05	12/17		02/07	02/17
LEAD HILL				AR	4106	710	36.42	-92.92
SPRING								
T	10%	30%	50%	70%	90%		90%	70%
36F	09/21	10/03	10/06	10/12	10/29		04/12	04/25
32F	09/22	10/05	10/14	10/19	11/06		03/31	04/09
28F	10/08	10/24	11/02	11/10	11/16		03/18	03/28
26F	10/21	11/04	11/12	11/17	11/28		03/08	03/24
LITTLE ROCK FAA ARPT				AR	4248	260	34.73	-92.23
SPRING								
T	10%	30%	50%	70%	90%		90%	70%
36F	10/17	10/24	10/26	11/05	11/11		03/21	04/01
32F	10/26	11/05	11/11	11/14	11/22		03/06	03/15
28F	11/07	11/14	11/19	11/28	12/07		02/14	03/03
26F	11/07	11/17	11/26	12/04	12/11		02/08	02/17

Frost / Freeze Analysis in the Southern Climate Region

Arkansas

STATION		ST	ID	ELEV	LAT	LON	CD	County
MAGNOLIA 3 N		AR	4548	320	33.32	-93.23	8	COLUMBIA
FALL								SPRING
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	10/03	10/11	10/17	10/23	10/29		03/19	03/30 04/07 04/11 04/17 193
32F	10/18	10/25	11/03	11/10	11/13		03/11	03/24 03/30 04/06 04/12 218
28F	11/03	11/07	11/13	11/19	11/29		03/01	03/07 03/19 03/24 04/07 239
26F	11/03	11/13	11/20	11/24	12/06		02/13	02/26 03/06 03/15 04/05 259
MAMMOTH SPRING		AR	4572	650	36.48	-91.53	2	FULTON
FALL								SPRING
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	09/22	09/29	10/04	10/06	10/17		04/11	04/24 05/02 05/08 05/23 155
32F	09/30	10/06	10/14	10/19	10/29		04/08	04/13 04/23 04/29 05/08 174
28F	10/10	10/19	10/24	10/28	11/06		03/22	03/28 04/05 04/10 04/16 202
26F	10/20	10/26	11/02	11/06	11/15		03/17	03/26 04/02 04/07 04/12 214
MARIANNA 2 S		AR	4638	230	34.73	-90.77	6	LEE
FALL								SPRING
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	10/04	10/13	10/19	10/24	11/02		03/22	03/26 04/06 04/10 04/15 196
32F	10/15	10/25	11/04	11/12	11/16		03/11	03/18 03/27 04/06 04/12 222
28F	10/30	11/06	11/15	11/22	12/02		02/14	02/28 03/14 03/23 04/05 246
26F	11/05	11/13	11/19	11/29	12/07		02/08	02/20 03/08 03/22 03/30 256
MENA		AR	4756	1130	34.57	-94.27	4	POLK
FALL								SPRING
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	09/29	10/11	10/16	10/21	11/04		03/27	04/06 04/11 04/20 04/28 188
32F	10/20	10/24	11/02	11/10	11/15		03/19	03/28 04/04 04/07 04/13 212
28F	10/30	11/09	11/13	11/19	11/30		02/20	03/08 03/21 03/27 04/08 237
26F	11/02	11/12	11/19	11/30	12/07		02/16	03/08 03/17 03/24 04/05 247
MONTICELLO 3 SW		AR	4900	290	33.60	-91.80	9	DREW
FALL								SPRING
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	10/01	10/09	10/16	10/25	11/02		03/20	04/06 04/10 04/16 04/27 189
32F	10/09	10/21	11/03	11/10	11/17		03/17	03/24 04/03 04/08 04/13 214
28F	10/29	11/11	11/14	11/21	12/05		02/22	03/11 03/19 03/22 04/05 240
26F	11/03	11/12	11/15	11/26	12/09		02/13	02/27 03/07 03/19 04/05 253
MOUNT IDA 3 SE		AR	4988	700	34.53	-93.60	7	MONTGOMERY
FALL								SPRING
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	09/23	10/03	10/08	10/13	10/26		04/11	04/21 04/28 04/30 05/09 163
32F	10/01	10/08	10/15	10/22	11/01		03/24	04/06 04/10 04/16 04/24 188
28F	10/20	10/25	11/04	11/08	11/15		03/12	03/24 03/29 04/06 04/12 220
26F	10/24	11/04	11/09	11/12	11/21		03/08	03/22 03/25 04/03 04/07 229

Frost / Freeze Analysis in the Southern Climate Region

Arkansas

STATION		ST	ID	ELEV	LAT	LON	CD	County				
MOUNTAIN HOME 1 NNW		AR	5036	800	36.33	-92.38	2	BAXTER				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/24	10/05	10/13	10/16	10/30		03/27	04/07	04/15	04/22	05/02	181
32F	10/04	10/19	10/25	11/04	11/12		03/20	03/29	04/06	04/09	04/13	202
28F	10/28	11/04	11/10	11/14	11/26		03/08	03/18	03/25	03/31	04/10	230
26F	11/03	11/08	11/12	11/16	11/26		03/06	03/16	03/24	03/28	04/06	233
NASHVILLE								AR 5112 410 33.95 -93.87 7 HOWARD				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/11	10/21	10/25	11/02	11/12		03/28	04/05	04/09	04/12	04/21	199
32F	10/20	11/04	11/09	11/12	11/25		03/17	03/26	04/03	04/05	04/13	220
28F	11/05	11/12	11/16	11/25	12/05		02/27	03/11	03/20	03/24	04/06	241
26F	11/12	11/16	11/26	12/01	12/07		02/17	03/01	03/09	03/20	03/31	262
NEWPORT								AR 5186 230 35.60 -91.28 3 JACKSON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/07	10/17	10/24	10/28	11/06		03/19	03/27	04/04	04/10	04/16	203
32F	10/14	11/03	11/07	11/13	11/22		03/06	03/17	03/21	03/28	04/10	231
28F	11/05	11/14	11/20	11/30	12/09		02/16	03/04	03/11	03/16	03/25	254
26F	11/06	11/15	11/27	12/07	12/15		02/08	02/17	03/06	03/14	03/24	266
NIMROD DAM								AR 5200 480 34.95 -93.17 5 PERRY				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/07	10/13	10/19	10/24	11/03		03/27	04/06	04/13	04/17	04/30	189
32F	10/10	10/21	10/29	11/06	11/13		03/08	03/28	04/06	04/09	04/15	206
28F	10/25	11/06	11/12	11/16	11/29		03/07	03/17	03/25	04/05	04/13	232
26F	11/05	11/11	11/15	11/22	11/30		02/16	03/11	03/21	03/25	04/05	239
OZARK								AR 5508 390 35.48 -93.82 4 FRANKLIN				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/01	10/11	10/21	10/27	11/04		03/27	04/09	04/13	04/20	04/24	191
32F	10/20	10/25	11/05	11/10	11/20		03/18	03/28	04/03	04/06	04/13	216
28F	11/04	11/11	11/14	11/19	11/29		02/20	03/11	03/18	03/24	04/08	241
26F	11/05	11/14	11/20	11/29	12/13		02/14	03/07	03/14	03/22	03/30	251
PINE BLUFF								AR 5754 210 34.22 -92.02 9 JEFFERSON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/13	10/23	10/28	11/04	11/15		03/18	03/27	04/05	04/09	04/16	206
32F	10/25	11/05	11/12	11/16	11/30		02/28	03/12	03/20	03/24	04/04	237
28F	11/06	11/16	11/23	12/02	12/08		02/12	02/27	03/06	03/11	03/22	262
26F	11/06	11/23	12/01	12/08	12/23		02/07	02/17	02/26	03/06	03/12	278

Frost / Freeze Analysis in the Southern Climate Region

Arkansas

STATION		ST	ID	ELEV	LAT	LON	CD	County				
POCAHONTAS 1		AR	5820	310	36.27	-90.97	3	RANDOLPH				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/03	10/09	10/17	10/23	10/29		03/26	04/10	04/15	04/17	05/04	185
32F	10/16	10/24	10/28	11/04	11/12		03/20	03/28	04/04	04/09	04/15	207
28F	10/27	11/04	11/11	11/15	11/25		03/09	03/17	03/24	04/03	04/09	232
26F	11/03	11/08	11/13	11/21	12/01		03/07	03/14	03/20	03/24	04/03	238
PORTLAND		AR	5866	120	33.23	-91.50	9	ASHLEY				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/14	10/19	11/02	11/12	11/17		03/19	03/25	04/03	04/06	04/12	213
32F	11/02	11/09	11/12	11/21	12/02		02/28	03/07	03/19	03/24	04/05	238
28F	11/08	11/14	11/21	11/29	12/09		02/08	02/16	02/28	03/10	03/25	266
26F	11/14	11/29	12/03	12/09	12/18		01/28	02/10	02/17	02/27	03/15	289
PRESCOTT		AR	5908	310	33.80	-93.38	8	NEVADA				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/08	10/22	10/26	11/06	11/14		03/19	03/28	04/05	04/09	04/15	204
32F	10/25	11/05	11/11	11/13	11/21		03/08	03/20	03/24	03/28	04/07	232
28F	11/05	11/14	11/20	11/29	12/06		02/15	02/26	03/08	03/22	03/31	257
26F	11/13	11/20	11/29	12/05	12/14		02/09	02/23	03/06	03/09	03/22	268
SEARCY		AR	6506	250	35.25	-91.75	3	WHITE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/04	10/12	10/20	10/26	11/06		03/24	04/05	04/10	04/15	04/24	193
32F	10/16	10/25	11/02	11/05	11/13		03/18	03/27	04/03	04/08	04/15	213
28F	11/01	11/07	11/13	11/18	11/28		03/06	03/11	03/18	03/24	04/07	240
26F	11/05	11/13	11/20	11/26	12/05		02/14	03/07	03/11	03/16	03/25	254
STUTTGART 9 ESE		AR	6920	200	34.47	-91.42	6	ARKANSAS				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/10	10/19	10/24	10/31	11/12		03/19	03/27	04/04	04/09	04/16	203
32F	10/23	11/01	11/08	11/15	11/22		03/05	03/18	03/23	03/31	04/12	230
28F	11/07	11/14	11/21	12/01	12/07		02/10	02/26	03/07	03/15	03/25	259
26F	11/07	11/16	11/24	12/05	12/17		02/04	02/14	02/26	03/05	03/22	271
TEXARKANA FAA AIRPORT		AR	7048	360	33.45	-94.00	7	MILLER				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/19	11/02	11/06	11/11	11/17		03/06	03/18	03/25	04/02	04/09	226
32F	11/03	11/13	11/15	11/24	12/05		02/15	03/03	03/10	03/22	04/03	250
28F	11/12	11/26	12/03	12/08	12/17		02/01	02/12	02/25	03/06	03/15	281
26F	11/17	12/05	12/10	12/17	12/27		02/01	02/10	02/22	03/03	03/15	291

Frost / Freeze Analysis in the Southern Climate Region

Arkansas

Station		ST	ID	ELEV	LAT		CD	County				
WALDRON		AR	7488	670	34.90	-94.10	4	SCOTT				
FALL						SPRING						
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/23	10/04	10/10	10/15	10/28		04/05	04/12	04/19	04/25	05/03	174
32F	09/30	10/10	10/20	10/25	11/07		03/27	04/05	04/07	04/09	04/16	196
28F	10/18	10/25	11/04	11/11	11/20		03/11	03/22	03/27	04/04	04/12	222
26F	10/20	11/05	11/09	11/16	11/29		03/06	03/14	03/22	03/25	04/05	232
WYNNE		AR	8052	260	35.25	-90.80	6	CROSS				
FALL							SPRING					
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/02	10/08	10/14	10/20	11/01		03/26	04/05	04/10	04/14	04/23	187
32F	10/10	10/21	10/28	11/06	11/16		03/17	03/22	04/03	04/07	04/12	208
28F	11/02	11/07	11/12	11/20	11/29		02/22	03/10	03/15	03/22	03/30	242
26F	11/05	11/14	11/22	12/02	12/14		02/13	02/28	03/10	03/18	03/24	257

Frost / Freeze Analysis in the Southern Climate Region

Louisiana

STATION		ST	ID	ELEV	LAT	LON	CD	County				
AMITE			LA 0205	170	30.70	-90.53	6	TANGIPAHOA				
		FALL				SPRING						
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	10/28	11/04	11/14	11/29		03/08	03/22	03/24	03/28	04/08	225
32F	11/04	11/11	11/15	11/24	12/04		02/20	03/02	03/08	03/21	03/28	252
28F	11/15	11/30	12/03	12/09	12/23		02/08	02/16	02/27	03/07	03/22	279
26F	11/20	12/01	12/10	12/16	12/27		01/14	02/06	02/16	02/27	03/15	297
ASHLAND			LA 0349	240	32.15	-93.12	4	NATCHITOCHES				
		FALL				SPRING						
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/05	10/12	10/17	10/23	11/08		03/26	04/05	04/07	04/11	04/25	193
32F	10/13	10/20	10/29	11/11	11/19		03/18	03/25	04/01	04/06	04/13	211
28F	10/29	11/07	11/14	11/23	12/01		03/04	03/09	03/21	03/25	04/07	238
26F	11/04	11/14	11/17	11/23	12/07		02/14	02/27	03/08	03/21	04/05	254
BASTROP			LA 0537	150	32.78	-91.90	3	MOREHOUSE				
		FALL				SPRING						
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/17	10/24	10/30	11/07	11/14		03/10	03/22	03/27	04/06	04/14	217
32F	10/25	11/08	11/15	11/23	12/04		02/19	03/08	03/17	03/24	04/04	243
28F	11/05	11/15	11/22	12/03	12/07		01/28	02/14	02/25	03/07	03/22	270
26F	11/15	11/28	12/06	12/12	12/23		01/14	02/10	02/19	02/26	03/10	290
BATON ROUGE WSO AP			LA 0549	60	30.53	-91.13	6	EAST BATON ROUGE				
		FALL				SPRING						
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/01	11/08	11/13	11/19	12/03		02/21	03/06	03/11	03/21	03/26	247
32F	11/09	11/16	11/22	12/05	12/14		02/10	02/25	03/04	03/08	03/22	263
28F	11/28	12/08	12/15	12/21	01/04		01/13	02/07	02/13	02/24	03/03	305
26F	12/01	12/14	12/18	12/27	01/20		01/13	02/01	02/07	02/12	02/25	314
BELAH F/TWR			LA 0639	200	31.63	-92.18	5					
		FALL				SPRING						
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/25	11/02	11/05	11/11	11/16		03/18	03/24	03/27	03/31	04/09	223
32F	10/27	11/05	11/14	11/16	11/25		02/18	03/05	03/07	03/15	03/24	252
28F	11/15	11/29	12/02	12/07	12/20		02/09	02/18	03/01	03/06	03/11	276
26F	11/24	12/04	12/10	12/15	12/23		01/28	02/07	02/14	02/23	03/04	299
BOGALUSA			LA 0945	100	30.78	-89.87	6	WASHINGTON				
		FALL				SPRING						
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/24	11/03	11/05	11/13	11/26		03/04	03/18	03/23	03/26	04/08	227
32F	11/06	11/14	11/18	11/30	12/04		02/17	02/27	03/06	03/14	03/25	257
28F	11/22	12/01	12/09	12/17	12/25		02/06	02/12	02/17	03/01	03/22	295
26F	11/27	12/10	12/15	12/23	01/19		01/15	02/05	02/14	02/25	03/06	304

Frost / Freeze Analysis in the Southern Climate Region

Louisiana

STATION	ST	ID	ELEV	LAT	LON	CD	County				
BUNKIE	LA	1287	80	30.95	-92.17	5	AVOYELLES				
FALL							SPRING				
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/25	11/04	11/10	11/14	11/30	02/23	03/10	03/23	03/25	04/07	232
32F	10/31	11/14	11/16	12/02	12/07	02/10	02/20	03/03	03/08	03/23	258
28F	11/24	12/07	12/14	12/18	12/25	01/13	02/07	02/11	02/27	03/07	306
26F	11/24	12/10	12/17	12/22	01/08	01/10	02/04	02/10	02/24	03/07	310
CALHOUN RES STA	LA	1411	180	32.52	-92.33	2	OUACHITA				
FALL							SPRING				
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/05	10/17	10/23	11/03	11/14	03/19	03/25	04/03	04/08	04/14	203
32F	10/25	11/04	11/08	11/13	11/27	03/06	03/16	03/23	04/03	04/12	230
28F	11/09	11/14	11/18	11/30	12/07	02/14	02/27	03/05	03/14	03/25	258
26F	11/16	11/24	12/01	12/09	12/17	02/08	02/14	02/25	03/08	03/23	279
CARVILLE 2 SW	LA	1565	20	30.20	-91.12	8	IBERVILLE				
FALL							SPRING				
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	11/05	11/11	11/17	11/30	12/07	02/18	03/04	03/09	03/17	03/28	253
32F	11/13	11/22	12/01	12/08	12/20	02/03	02/16	02/25	03/06	03/14	279
28F	11/27	12/10	12/15	12/20	01/02	01/14	02/03	02/11	02/14	03/05	307
26F	11/30	12/16	12/21	12/29	01/23	01/06	01/22	02/05	02/11	02/25	319
CONVERSE	LA	2023	220	31.75	-93.70	4					
FALL							SPRING				
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/06	10/13	10/20	10/25	11/04	03/25	03/29	04/05	04/06	04/12	198
32F	10/17	10/25	11/05	11/12	11/23	02/27	03/23	03/26	04/03	04/11	224
28F	11/03	11/10	11/15	11/28	12/07	02/17	02/27	03/08	03/17	03/25	252
26F	11/04	11/14	11/22	11/29	12/11	02/08	02/15	02/27	03/08	03/13	268
COTTON VALLEY 5 NNW	LA	2121	250	32.88	-93.47	1	WEBSTER				
FALL							SPRING				
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/06	10/15	10/23	10/29	11/08	03/25	04/03	04/07	04/10	04/15	199
32F	10/25	11/02	11/07	11/12	11/21	03/08	03/18	03/25	03/28	04/06	227
28F	11/03	11/09	11/15	11/21	12/07	02/20	03/01	03/11	03/18	03/25	249
26F	11/08	11/14	11/22	12/06	12/12	02/11	02/23	03/05	03/09	03/15	262
COVINGTON 4 NNW	LA	2151	40	30.53	-90.12	6	ST TAMMANY				
FALL							SPRING				
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/20	10/26	11/03	11/11	11/17	03/09	03/23	03/26	04/04	04/12	222
32F	10/30	11/08	11/14	11/19	12/04	02/22	03/08	03/20	03/25	04/05	239
28F	11/11	11/22	12/01	12/08	12/20	02/16	02/25	03/03	03/08	03/23	273
26F	11/24	12/05	12/10	12/17	12/24	01/15	02/10	02/20	02/27	03/15	293

Frost / Freeze Analysis in the Southern Climate Region

Louisiana

STATION		ST	ID	ELEV	LAT	LON	CD	County				
CROWLEY 2 NE		LA	2212	20	30.25	-92.37	7	ACADIA				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/31	11/09	11/12	11/15	11/30		02/18	03/04	03/10	03/20	03/25	247
32F	11/12	11/15	12/01	12/06	12/13		02/11	02/16	03/02	03/10	03/22	274
28F	11/23	12/07	12/13	12/17	12/24		01/06	01/28	02/07	02/13	03/04	309
26F	11/24	12/10	12/18	12/24	01/10		01/06	01/28	02/07	02/13	03/03	314
DE QUINCY 4 N		LA	2361	90	30.52	-93.43	7					
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/19	10/26	11/07	11/14	11/23		03/08	03/23	03/25	04/01	04/12	227
32F	10/25	11/10	11/14	11/22	12/06		02/22	03/07	03/10	03/17	03/24	249
28F	11/03	11/21	12/04	12/09	12/24		02/08	02/14	02/24	03/07	03/17	283
26F	11/12	12/01	12/09	12/19	01/05		01/24	02/09	02/13	02/23	03/07	299
DE RIDDER		LA	2367	190	30.83	-93.28	7	BEAUREGARD				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/21	11/02	11/05	11/12	11/16		03/04	03/21	03/24	04/03	04/11	226
32F	11/01	11/11	11/17	11/26	12/06		02/17	03/03	03/07	03/19	04/02	255
28F	11/12	11/29	12/01	12/10	12/23		01/16	02/12	02/23	03/04	03/15	281
26F	11/16	12/07	12/15	12/19	01/05		01/06	02/10	02/13	02/25	03/04	305
DONALDSONVILLE 4 SW		LA	2534	30	30.07	-91.03	8	ASSUMPTION				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/05	11/14	11/21	11/30	12/08		02/18	02/27	03/08	03/13	03/22	258
32F	11/16	12/01	12/08	12/16	12/26		02/09	02/15	02/25	03/05	03/16	286
28F	12/01	12/13	12/19	12/28	01/18		01/06	01/28	02/08	02/13	02/25	314
26F	12/13	12/24	01/05	01/19	01/28		01/13	01/18	02/02	02/12	02/25	334
ELIZABETH		LA	2800	150	30.85	-92.78	7	ALLEN				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/18	10/26	11/06	11/12	11/22		03/08	03/22	03/26	04/02	04/12	225
32F	10/29	11/08	11/14	11/25	12/04		02/16	03/07	03/12	03/22	04/05	247
28F	11/08	11/30	12/06	12/12	12/24		02/03	02/13	02/26	03/03	03/22	283
26F	11/16	12/03	12/10	12/19	12/27		01/14	02/08	02/13	02/24	03/07	300
FRANKLIN 3 NW		LA	3313	10	29.82	-91.55	8	ST MARY				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/04	11/11	11/14	11/26	12/01		02/16	03/03	03/10	03/22	04/01	249
32F	11/13	11/25	12/03	12/13	12/24		02/10	02/16	02/26	03/05	03/12	280
28F	11/24	12/10	12/18	12/24	01/17		01/14	02/03	02/10	02/12	03/03	311
26F	12/10	12/19	12/25	01/05	01/17		12/25	01/28	02/03	02/11	03/03	325

Frost / Freeze Analysis in the Southern Climate Region

Louisiana

STATION		ST	ID	ELEV	LAT	LON	CD	County				
FRANKLINTON 3 SW		LA	3327	150	30.82	-90.18	6	WASHINGTON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/19	10/23	10/28	11/07	11/13		03/18	03/24	03/28	04/04	04/12	214
32F	10/21	11/04	11/11	11/17	12/01		02/27	03/06	03/19	03/24	04/07	237
28F	11/13	11/27	12/03	12/08	12/22		02/10	02/21	02/27	03/07	03/22	279
26F	11/19	12/03	12/10	12/18	12/25		01/17	02/08	02/16	02/27	03/15	297
GRAND COTEAU		LA	3800	60	30.43	-92.03	5	ST LANDRY				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/29	11/05	11/12	11/18	12/01		02/24	03/06	03/17	03/24	04/05	240
32F	11/12	11/16	11/26	12/02	12/10		02/08	02/19	03/03	03/08	03/23	268
28F	11/19	12/03	12/10	12/16	12/24		01/14	02/07	02/17	03/01	03/22	296
26F	11/30	12/13	12/17	12/25	01/13		01/14	02/03	02/10	02/12	03/05	310
HACKBERRY 8 SSW		LA	3979	10	29.88	-93.42	7	CAMERON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/07	11/16	11/30	12/07	12/17		02/08	02/20	03/04	03/11	03/22	271
32F	11/16	12/01	12/11	12/17	01/16		12/27	02/07	02/13	02/23	03/06	301
28F	12/10	12/19	12/30	01/08	01/27		01/11	01/18	02/07	02/12	03/03	326
26F	12/12	12/24	01/08	01/16	02/11		01/09	01/13	01/18	02/06	02/24	346
HAMMOND 3 NW		LA	4034	40	30.53	-90.48	6					
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	10/25	11/01	11/12	11/17		03/10	03/22	03/24	03/28	04/09	222
32F	10/26	11/04	11/12	11/17	12/03		02/26	03/06	03/17	03/23	04/08	240
28F	11/13	11/17	11/30	12/06	12/15		02/11	02/24	03/03	03/08	03/22	272
26F	11/15	11/30	12/07	12/15	12/24		01/27	02/10	02/16	03/01	03/11	294
HOMER 3 SSW		LA	4355	380	32.75	-93.07	2	CLAIBORNE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/14	10/22	10/29	11/08	11/16		03/19	03/28	04/05	04/09	04/13	207
32F	10/25	11/05	11/10	11/13	11/19		03/06	03/18	03/24	04/04	04/12	231
28F	11/05	11/13	11/16	11/23	12/04		02/19	03/05	03/08	03/21	04/03	253
26F	11/12	11/20	11/30	12/08	12/18		02/10	02/22	03/05	03/14	03/24	270
HOUma		LA	4407	20	29.58	-90.73	9	TERREBONNE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/04	11/11	11/17	11/26	12/06		02/16	02/26	03/07	03/14	03/25	255
32F	11/14	11/27	12/10	12/18	12/27		02/02	02/11	02/24	03/07	03/21	289
28F	11/24	12/13	12/19	12/29	01/17		01/10	01/25	02/09	02/13	02/26	313
26F	12/07	12/18	12/24	01/14	01/26		01/10	01/15	01/25	02/10	02/24	333

Frost / Freeze Analysis in the Southern Climate Region

Louisiana

STATION		ST	ID	ELEV	LAT	LON	CD	County
JENNINGS		LA	4700	20	30.20	-92.67	7	JEFFERSON DAVIS
FALL								
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	10/26	11/09	11/14	11/21	12/02		02/18	03/04 03/10 03/21 04/03 249
32F	11/08	11/21	12/02	12/07	12/18		02/11	02/20 03/01 03/10 03/22 276
28F	11/24	12/10	12/16	12/23	01/13		01/06	02/04 02/11 02/23 03/05 308
26F	11/30	12/17	12/24	01/08	01/27		01/10	01/30 02/09 02/12 03/01 318
LAFAYETTE FCWOS		LA	5026	40	30.20	-91.98	8	LAFAYETTE
FALL								
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	11/04	11/10	11/14	11/22	12/01		02/14	02/26 03/07 03/14 03/25 252
32F	11/14	11/26	12/02	12/09	12/23		01/24	02/11 02/24 03/05 03/22 281
28F	11/27	12/13	12/18	12/24	01/17		01/06	01/28 02/10 02/12 03/05 311
26F	11/30	12/19	12/25	01/12	01/27		12/25	01/28 02/04 02/10 02/23 324
LAKE CHARLES WSO AP		LA	5078	10	30.12	-93.22	7	CALCASIEU
FALL								
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	10/31	11/11	11/14	11/26	12/06		02/14	02/28 03/08 03/14 03/23 251
32F	11/12	11/28	12/05	12/12	12/23		01/28	02/10 02/21 03/03 03/22 287
28F	11/29	12/14	12/22	01/08	01/27		01/09	02/03 02/10 02/12 02/24 315
26F	12/07	12/17	12/23	01/10	01/30		01/09	01/15 01/25 02/12 02/12 332
LAKE PROVIDENCE		LA	5090	100	32.80	-91.17	3	EAST CARROLL
FALL								
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	10/20	10/27	11/06	11/12	11/23		03/02	03/16 03/25 03/28 04/07 226
32F	11/02	11/11	11/16	11/24	12/05		02/15	03/03 03/07 03/16 03/30 254
28F	11/12	11/22	12/02	12/10	12/20		01/19	02/10 02/20 02/26 03/04 285
26F	11/14	11/30	12/10	12/18	01/06		01/14	02/08 02/15 02/25 03/04 298
LEESVILLE		LA	5266	240	31.15	-93.27	4	VERNON
FALL								
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	10/11	10/22	10/31	11/11	11/23		03/17	03/22 03/27 04/04 04/12 218
32F	10/23	11/03	11/09	11/13	11/27		03/04	03/11 03/23 03/25 04/08 231
28F	11/04	11/15	11/29	12/02	12/14		02/11	02/23 03/06 03/11 03/22 268
26F	11/14	12/01	12/06	12/11	12/21		02/07	02/12 02/23 03/04 03/14 286
LOGANSPORT 4 ENE		LA	5527	210	31.98	-93.95	1	DE SOTO
FALL								
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	10/04	10/11	10/15	10/24	11/11		03/25	04/04 04/07 04/09 04/12 191
32F	10/13	10/24	11/04	11/11	11/16		03/17	03/22 03/28 04/05 04/12 221
28F	10/25	11/10	11/15	11/25	12/03		02/26	03/05 03/13 03/19 04/05 247
26F	11/10	11/15	11/22	11/30	12/07		02/07	02/13 02/28 03/10 03/15 267

Frost / Freeze Analysis in the Southern Climate Region

Louisiana

STATION		ST	ID	ELEV	LAT	LON	CD	County				
LSU-BEN HUR FARM		LA	5620	20	30.37	-91.17	6	EAST BATON ROUGE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	10/30	11/05	11/12	11/26		03/04	03/10	03/19	03/26	04/06	231
32F	11/02	11/12	11/17	11/25	12/05		02/16	02/27	03/06	03/11	03/22	256
28F	11/15	11/27	12/08	12/15	12/24		01/24	02/13	02/25	03/01	03/15	286
26F	11/21	12/08	12/14	12/18	12/26		01/18	02/07	02/11	02/25	03/01	306
LSU-CITRUS RES STA								LA 5624	4 29.58	-89.83	9 PLAQUEMINES	
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/13	11/29	12/08	12/16	12/26		02/14	02/27	03/03	03/13	03/30	290
32F	11/17	12/01	12/15	12/24	01/07		01/13	02/08	02/13	02/23	03/08	305
28F	12/26	12/22	12/28	01/10	01/26		01/06	01/15	02/04	02/12	03/04	328
26F	12/20	12/24	01/02	01/14	01/26		01/04	01/17	01/22	02/11	02/28	345
MANY								LA 5892	260 31.57	-93.48	4 SABINE	
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/04	10/12	10/18	10/25	11/03		03/24	03/29	04/06	04/08	04/13	195
32F	10/19	10/25	11/03	11/11	11/20		03/07	03/22	03/25	04/04	04/12	223
28F	10/31	11/09	11/15	11/25	12/05		02/26	03/07	03/16	03/21	04/04	244
26F	11/04	11/15	11/24	12/01	12/08		02/11	02/23	03/07	03/10	03/21	262
MINDEN								LA 6244	190 32.58	-93.28	1 WEBSTER	
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/18	10/25	11/02	11/11	11/16		03/19	03/25	03/29	04/05	04/13	218
32F	10/28	11/08	11/12	11/16	11/27		03/07	03/20	03/24	03/27	04/11	233
28F	11/09	11/20	11/26	12/04	12/11		02/15	02/24	03/07	03/12	03/24	264
26F	11/16	11/22	12/04	12/11	12/24		01/25	02/17	02/27	03/07	03/19	280
MONROE FCWOS								LA 6303	80 32.52	-92.05	2 OUACHITA	
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/09	10/18	10/25	11/08	11/17		03/09	03/19	03/25	03/30	04/08	214
32F	10/23	11/05	11/10	11/14	11/28		02/14	02/26	03/10	03/16	03/25	245
28F	11/09	11/14	11/22	12/02	12/15		02/07	02/10	02/18	03/04	03/12	277
26F	11/14	11/24	12/04	12/11	12/26		01/27	02/07	02/13	02/25	03/08	294
MORGAN CITY								LA 6394	0 29.68	-91.18	8 ST MARY	
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/14	11/21	12/01	12/07	12/20		02/09	02/23	03/06	03/10	03/25	270
32F	11/27	12/09	12/14	12/19	01/02		01/12	02/04	02/11	02/23	03/05	306
28F	12/13	12/19	12/26	01/16	02/07		01/10	01/17	01/31	02/13	02/25	329
26F	12/17	12/23	01/03	01/10	01/28		01/01	01/15	01/22	02/03	02/13	346

Frost / Freeze Analysis in the Southern Climate Region

Louisiana

STATION		ST	ID	ELEV	LAT	LON	CD	County
NATCHITOCHES		LA	6582	130	31.77	-93.08	4	NATCHITOCHES
FALL								
T	10%	30%	50%	70%	90%		90%	70%
36F	10/23	11/04	11/09	11/13	11/23		03/04	03/17
32F	11/04	11/14	11/16	11/25	12/03		02/17	02/26
28F	11/15	11/30	12/06	12/12	12/22		01/24	02/13
26F	11/20	12/08	12/15	12/19	12/31		01/05	02/04
NEW IBERIA		LA	6657	20	29.98	-91.78	8	IBERIA
SPRING								
T	10%	30%	50%	70%	90%		90%	70%
36F	11/01	11/08	11/13	11/22	11/30		02/18	03/04
32F	11/03	11/21	12/01	12/10	01/01		02/11	02/18
28F	11/15	12/07	12/19	12/24	01/27		01/17	02/04
26F	11/15	12/19	12/31	01/13	01/27		01/13	01/22
NEW ORLEANS WSCMO AP		LA	6660	0	29.98	-90.25	9	JEFFERSON
FALL								
T	10%	30%	50%	70%	90%		90%	70%
36F	10/31	11/11	11/16	11/30	12/10		02/16	03/03
32F	11/16	11/30	12/07	12/15	12/30		01/24	02/12
28F	11/17	12/12	12/21	12/28	01/17		01/13	01/18
26F	12/03	12/22	12/28	01/10	01/27		01/02	01/14
NEW ORLEANS AUDUBON		LA	6664	10	29.92	-90.13	9	ORLEANS
SPRING								
T	10%	30%	50%	70%	90%		90%	70%
36F	11/15	11/30	12/09	12/14	01/02		01/24	02/11
32F	11/29	12/15	12/18	12/29	01/12		01/06	01/28
28F	12/18	12/25	01/09	01/14	01/25		01/01	01/13
26F	12/22	01/07	01/10	01/13	01/20		12/25	01/12
NEW ROADS 5 ESE		LA	6686	40	30.68	-91.37	5	POINTE COUPEE
FALL								
T	10%	30%	50%	70%	90%		90%	70%
36F	10/21	11/04	11/12	11/17	12/05		02/28	03/06
32F	11/02	11/12	11/22	11/29	12/06		02/16	02/24
28F	11/25	12/04	12/10	12/15	12/24		12/27	01/28
26F	11/30	12/09	12/15	12/19	12/24		01/05	01/28
OBERLIN F/TWR		LA	6938	70	30.60	-92.78	7	ALLEN
SPRING								
T	10%	30%	50%	70%	90%		90%	70%
36F	10/23	11/05	11/10	11/13	11/26		02/27	03/09
32F	11/04	11/14	11/22	12/02	12/10		02/14	02/28
28F	11/16	12/03	12/10	12/17	12/30		01/13	02/08
26F	11/23	12/08	12/16	12/24	01/17		01/13	02/04

Frost / Freeze Analysis in the Southern Climate Region

Louisiana

STATION		ST	ID	ELEV	LAT	LONG	CD	County
OLD RIVER LOCK		LA	6962	70	31.00	-91.67	5	
FALL								SPRING
T	10%	30%	50%	70%	90%	90%	70%	50%
36F	10/26	11/03	11/09	11/14	11/30	02/27	03/07	03/18
32F	11/03	11/14	11/16	11/25	12/05	02/15	02/24	03/05
28F	11/15	12/01	12/12	12/18	01/06	01/24	02/09	02/14
26F	11/24	12/07	12/16	12/24	01/12	01/06	02/04	02/11
PARADIS 7 S								ST CHARLES
FALL								SPRING
T	10%	30%	50%	70%	90%	90%	70%	50%
36F	10/26	11/05	11/14	11/19	12/02	02/17	02/27	03/07
32F	11/05	11/15	11/23	12/01	12/14	01/28	02/12	02/24
28F	11/15	12/01	12/12	12/24	01/07	01/17	02/05	02/12
26F	11/17	12/07	12/16	12/23	01/14	01/13	01/28	02/04
PLAIN DEALING								BOSSIER
FALL								SPRING
T	10%	30%	50%	70%	90%	90%	70%	50%
36F	10/10	10/20	10/25	11/06	11/13	03/22	03/29	04/07
32F	10/23	11/04	11/10	11/13	11/21	03/08	03/23	03/26
28F	10/29	11/11	11/16	11/26	12/10	02/19	03/07	03/15
26F	11/11	11/22	11/30	12/06	12/23	02/10	02/23	03/06
RESERVE 4 WNW								ST JOHN BAPTIST
FALL								SPRING
T	10%	30%	50%	70%	90%	90%	70%	50%
36F	11/05	11/14	11/21	11/30	12/07	02/12	02/27	03/06
32F	11/14	11/30	12/07	12/14	12/25	01/29	02/13	02/25
28F	11/24	12/13	12/19	12/30	01/17	01/14	02/01	02/07
26F	12/08	12/19	01/02	01/12	01/20	01/06	01/18	01/28
ROCKEFELLER WL REFUGE								CAMERON
FALL								SPRING
T	10%	30%	50%	70%	90%	90%	70%	50%
36F	11/11	11/16	11/23	12/02	12/13	02/14	02/23	03/07
32F	11/15	12/01	12/12	12/17	01/05	01/12	02/04	02/11
28F	12/10	12/19	12/29	01/13	02/07	01/10	01/30	02/07
26F	12/18	12/24	01/06	01/13	01/30	01/09	01/18	01/30
RUSTON-LA TECH								LINCOLN
FALL								SPRING
T	10%	30%	50%	70%	90%	90%	70%	50%
36F	10/19	10/25	11/02	11/10	11/15	03/19	03/24	04/03
32F	10/25	11/05	11/11	11/15	11/26	03/07	03/18	03/23
28F	11/07	11/14	11/20	12/01	12/11	02/14	02/28	03/06
26F	11/16	11/30	12/06	12/12	12/21	02/08	02/16	02/26

Frost / Freeze Analysis in the Southern Climate Region

Louisiana

STATION		ST	ID	ELEV	LAT	LON	CD	County				
ST JOSEPH 3 N			LA 8163	80	31.95	-91.23	3	TENSAS				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/10	10/20	10/28	11/04	11/24		03/06	03/23	03/26	04/03	04/12	216
32F	10/23	11/04	11/12	11/19	12/01		02/23	03/03	03/10	03/22	04/05	247
28F	11/07	11/22	12/02	12/09	12/18		01/28	02/11	02/19	02/26	03/06	286
26F	11/15	12/02	12/12	12/18	12/27		01/16	02/07	02/13	02/24	03/05	302
SHREVEPORT WSO AP			LA 8440	250	32.47	-93.82	1	CADDY				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/22	11/02	11/07	11/11	11/19		03/17	03/25	03/28	04/05	04/12	224
32F	11/01	11/13	11/15	11/25	12/05		02/19	03/06	03/10	03/21	04/03	250
28F	11/15	11/23	12/02	12/08	12/24		02/08	02/20	03/01	03/07	03/17	276
26F	11/18	12/01	12/09	12/16	12/28		01/13	02/08	02/19	03/03	03/15	293
SLIDELL WSFO			LA 8539	10	30.25	-89.77	6	ST	TAMMANY			
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/03	11/10	11/14	11/19	12/02		02/20	03/06	03/17	03/25	04/05	242
32F	11/09	11/16	11/25	12/02	12/10		02/13	02/27	03/05	03/12	03/24	265
28F	11/24	12/08	12/15	12/19	01/05		01/18	02/08	02/15	02/25	03/06	303
26F	11/30	12/13	12/19	12/25	01/17		01/13	01/29	02/10	02/13	11/17	312
TALLULAH			LA 8923	80	32.40	-91.22	3	MADISON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/06	10/20	10/25	11/06	11/23		03/16	03/23	03/27	04/05	04/12	212
32F	10/20	10/30	11/09	11/14	11/24		02/18	03/08	03/22	03/25	04/05	232
28F	11/03	11/12	11/19	11/30	12/10		02/09	02/21	03/05	03/08	03/22	259
26F	11/05	11/21	11/29	12/09	12/18		01/16	02/10	02/16	02/25	03/12	286
WINNFIELD 2 W			LA 9803	160	31.93	-92.68	2	WINN				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/05	10/13	10/20	10/25	11/13		03/22	03/27	04/04	04/06	04/13	199
32F	10/18	10/25	11/04	11/12	11/22		03/07	03/19	03/24	04/02	04/11	225
28F	11/02	11/09	11/13	11/23	12/04		02/16	02/26	03/07	03/12	03/24	251
26F	11/08	11/15	11/20	11/30	12/12		01/27	02/16	02/24	03/07	03/22	269
WINNSBORO 5 SSE			LA 9806	80	32.10	-91.72	3	FRANKLIN				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/07	10/17	10/25	11/02	11/19		03/19	03/25	03/28	04/07	04/13	211
32F	10/19	10/31	11/08	11/15	11/27		02/27	03/08	03/19	03/25	04/05	234
28F	10/31	11/13	11/15	11/26	12/09		02/09	02/20	03/01	03/08	03/22	259
26F	11/09	11/21	12/02	12/08	12/18		01/28	02/13	02/23	03/04	03/12	282

Frost / Freeze Analysis in the Southern Climate Region

Louisiana

STATION	ST	ID	ELEV	LAT	LON	CD	County					
WOODWORTH STATE FOREST	LA	9865		31.12	-92.47	5						
<hr/>												
	FALL				SPRING							
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/25	11/02	11/06	11/12	11/21		03/04	03/17	03/24	03/29	04/07	227
32F	10/31	11/11	11/15	11/22	12/05		02/19	03/04	03/08	03/14	03/25	252
28F	11/14	11/23	12/01	12/08	12/21		02/04	02/11	02/21	03/01	03/07	283
26F	11/24	12/08	12/13	12/17	12/23		01/17	02/04	02/10	02/25	03/04	306

Frost / Freeze Analysis in the Southern Climate Region

Mississippi

STATION	ST	ID	ELEV	LAT	LON	CD	County	
ABERDEEN	MS	0021	210	33.83	-88.52	6	MONROE	
FALL								
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD	
36F	10/05	10/15	10/22	10/30	11/13		03/24 04/01 04/09 04/12 04/23 196	
32F	10/22	10/27	11/04	11/10	11/17		03/17 03/23 03/28 04/05 04/12 221	
28F	11/02	11/08	11/14	11/21	12/02		02/16 02/27 03/09 03/18 03/30 250	
26F	11/05	11/12	11/21	11/30	12/09		02/13 02/21 02/27 03/08 03/24 267	
BATESVILLE	2	SW	MS	0488	220	34.30	-89.98	2 PANOLA
FALL								
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD	
36F	10/03	10/06	10/11	10/20	10/29		03/28 04/07 04/13 04/15 04/23 181	
32F	10/11	10/24	10/25	11/02	11/13		03/20 03/28 04/06 04/09 04/13 202	
28F	10/26	11/04	11/12	11/15	11/29		03/04 03/18 03/23 03/28 04/10 234	
26F	11/04	11/09	11/16	11/22	12/05		02/16 03/04 03/14 03/23 04/04 247	
BELZONI	MS	0660	110	33.20	-90.48	4	HUMPHREYS	
FALL								
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD	
36F	10/09	10/19	10/25	11/02	11/14		03/18 03/24 03/28 04/06 04/13 211	
32F	10/25	10/30	11/08	11/15	12/02		02/22 03/08 03/15 03/23 04/05 238	
28F	11/04	11/14	11/21	12/04	12/16		01/30 02/10 02/26 03/07 03/24 268	
26F	11/12	11/24	12/06	12/10	12/28		01/28 02/09 02/22 02/27 03/14 287	
BOONEVILLE	MS	0955	490	34.67	-88.57	3	PRENTISS	
FALL								
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD	
36F	10/05	10/14	10/20	10/26	11/09		03/23 04/03 04/10 04/15 04/23 193	
32F	10/22	10/27	11/03	11/07	11/14		03/15 03/24 03/31 04/08 04/13 217	
28F	11/03	11/10	11/16	11/26	12/04		02/28 03/10 03/17 03/24 03/30 244	
26F	11/06	11/14	11/21	11/29	12/08		02/17 02/27 03/08 03/14 03/22 258	
BROOKHAVEN CITY	MS	1094	420	31.55	-90.45	7	LINCOLN	
FALL								
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD	
36F	10/11	10/20	10/26	11/04	11/13		03/18 03/25 03/28 04/08 04/14 212	
32F	10/22	11/04	11/11	11/15	11/24		02/26 03/07 03/19 03/25 04/07 237	
28F	11/09	11/20	11/25	12/04	12/10		02/09 02/25 03/04 03/08 03/24 266	
26F	11/14	11/29	12/08	12/12	12/24		01/25 02/16 02/26 03/04 03/22 285	
CANTON	MS	1389	230	32.60	-90.03	5		
FALL								
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD	
36F	10/05	10/19	10/20	10/28	11/05		03/19 03/27 04/05 04/09 04/17 198	
32F	10/20	10/25	11/02	11/11	11/14		03/16 03/23 03/25 04/05 04/12 222	
28F	10/31	11/09	11/14	11/22	12/04		02/20 02/28 03/09 03/17 03/24 250	
26F	11/05	11/12	11/15	11/23	12/06		02/09 02/21 02/28 03/08 03/22 260	

Frost / Freeze Analysis in the Southern Climate Region

Mississippi

STATION	ST	ID	ELEV	LAT	LON	CD	County				
CLARKSDALE	MS	1707	170	34.20	-90.57	1	COAHOMA				
FALL							SPRING				
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/20	10/26	11/03	11/10	11/14	03/17	03/24	03/28	04/05	04/10	220
32F	10/31	11/09	11/13	11/15	11/30	02/28	03/09	03/16	03/25	04/03	242
28F	11/07	11/19	12/01	12/07	12/13	02/08	02/18	03/05	03/13	03/24	271
26F	11/16	11/28	12/08	12/13	12/22	02/05	02/16	03/01	03/10	03/24	282
CLEVELAND							MS 1738	140 33.73	-90.73	1	
FALL							SPRING				
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/13	10/24	10/25	11/04	11/12	03/19	03/27	04/06	04/10	04/16	202
32F	10/21	10/30	11/06	11/12	11/23	03/11	03/19	03/26	04/05	04/16	225
28F	11/05	11/13	11/18	11/26	12/05	02/16	03/06	03/12	03/22	03/30	251
26F	11/05	11/14	11/23	12/03	12/17	02/09	02/22	03/06	03/12	03/24	262
COLUMBIA							MS 1865	150 31.25	-89.83	8	MARION
FALL							SPRING				
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/12	10/21	10/26	11/06	11/14	03/18	03/23	03/28	04/06	04/14	212
32F	10/25	11/02	11/11	11/14	11/30	03/03	03/10	03/21	03/25	04/04	235
28F	11/05	11/11	11/20	11/30	12/14	02/08	02/22	02/27	03/12	03/23	266
26F	11/15	11/27	12/04	12/10	12/24	02/08	02/13	02/26	03/06	03/22	281
CORINTH CITY							MS 1962	380 34.92	-88.52	3	ALCORN
FALL							SPRING				
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	09/30	10/05	10/13	10/18	10/24	03/26	04/08	04/13	04/21	05/03	183
32F	10/03	10/20	10/25	11/04	11/13	03/23	03/30	04/08	04/10	04/17	200
28F	10/25	11/03	11/07	11/13	11/24	03/08	03/16	03/22	03/26	04/04	230
26F	11/03	11/09	11/13	11/17	12/06	02/15	03/06	03/09	03/21	03/30	249
EUPORA 2 E							MS 2896	440 33.55	-89.23	5	WEBSTER
FALL							SPRING				
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/03	10/07	10/14	10/20	11/02	03/26	04/07	04/12	04/16	04/30	185
32F	10/04	10/20	10/25	11/03	11/13	03/21	03/27	04/06	04/10	04/16	202
28F	10/22	11/02	11/10	11/14	12/02	03/03	03/18	03/23	03/27	04/08	232
26F	11/04	11/09	11/15	11/21	12/02	02/16	03/03	03/08	03/22	04/03	252
FOREST 3 S							MS 3107	480 32.32	-89.48	5	SCOTT
FALL							SPRING				
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/04	10/13	10/19	10/25	10/30	03/24	04/06	04/10	04/13	04/26	192
32F	10/20	10/26	11/04	11/07	11/14	03/18	03/24	03/28	04/04	04/15	221
28F	11/04	11/13	11/18	11/28	12/06	02/25	03/06	03/17	03/23	04/05	246
26F	11/07	11/15	11/23	12/04	12/09	02/16	02/28	03/07	03/22	03/28	261

Frost / Freeze Analysis in the Southern Climate Region

Mississippi

STATION		ST	ID	ELEV	LAT	LON	CD	County				
GREENVILLE		MS	3605	130	33.38	-91.02	4	WASHINGTON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/19	10/26	11/04	11/09	11/14		03/12	03/23	03/29	04/06	04/15	220
32F	11/03	11/11	11/14	11/23	12/01		02/20	03/06	03/15	03/24	04/04	244
28F	11/07	11/19	12/01	12/08	12/14		02/08	02/19	03/05	03/10	03/24	271
26F	11/15	11/27	12/07	12/11	12/24		01/18	02/08	02/24	03/03	03/12	286
GREENWOOD FAA AIRPORT								MS 3627	150	33.50	-90.08	4 CARROLL
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/07	10/22	10/28	11/04	11/13		03/19	03/25	03/28	04/07	04/15	214
32F	10/31	11/07	11/12	11/14	11/30		03/06	03/10	03/19	03/24	04/10	238
28F	11/09	11/16	11/22	12/05	12/13		02/08	02/26	03/03	03/08	03/25	264
26F	11/09	11/19	11/30	12/08	12/24		01/18	02/10	02/23	02/27	03/16	280
GULFPORT NAVAL CENTER								MS 3671	40	30.38	-89.13	0 HARRISON
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/03	11/12	11/17	11/30	12/07		02/18	02/27	03/09	03/22	03/27	253
32F	11/14	11/22	12/01	12/08	01/05		02/04	02/16	02/27	03/07	03/22	277
28F	11/30	12/07	12/15	12/24	01/16		01/03	01/28	02/11	02/23	03/03	307
26F	12/01	12/15	12/24	01/09	01/16		01/03	01/27	02/05	02/12	02/22	322
HATTIESBURG								MS 3887	160	31.32	-89.30	9 FORREST
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/17	10/25	10/30	11/06	11/22		03/19	03/24	03/26	04/03	04/12	218
32F	10/29	11/07	11/14	11/17	12/04		03/01	03/10	03/18	03/24	04/03	241
28F	11/13	11/21	11/30	12/07	12/24		02/08	02/20	02/28	03/08	03/23	275
26F	11/14	11/30	12/10	12/18	01/06		02/08	02/13	02/26	03/03	03/11	287
HERNANDO								MS 3975	360	34.83	-90.00	2 DE SOTO
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/14	10/23	10/30	11/05	11/12		03/19	03/30	04/06	04/10	04/16	207
32F	10/24	11/04	11/07	11/13	11/17		03/09	03/20	03/27	04/05	04/12	225
28F	11/04	11/13	11/17	11/28	12/05		02/28	03/07	03/15	03/24	03/31	247
26F	11/07	11/16	11/24	12/03	12/10		02/09	02/28	03/07	03/15	03/25	262
JACKSON WSFO AIRPORT								MS 4472	310	32.32	-90.08	5 RANKIN
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/08	10/19	10/25	11/02	11/13		03/20	03/29	04/06	04/10	04/15	202
32F	10/20	10/29	11/06	11/13	11/28		03/07	03/19	03/25	03/29	04/08	226
28F	11/05	11/14	11/20	11/29	12/06		02/13	02/26	03/05	03/12	03/24	260
26F	11/05	11/20	11/29	12/04	12/11		02/10	02/20	03/03	03/08	03/22	271

Frost / Freeze Analysis in the Southern Climate Region

Mississippi

STATION	ST	ID	ELEV	LAT	LON	CD	County
KIPLING	MS	4702	320	32.68	-88.63	6	KEMPER
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/04	10/09	10/15	10/20	10/29		04/06 04/11 04/16 04/24 05/01 182
32F	10/14	10/20	10/25	10/30	11/09		03/23 03/28 04/05 04/10 04/16 203
28F	10/24	11/01	11/07	11/14	11/23		03/09 03/18 03/23 03/29 04/11 229
26F	11/04	11/09	11/14	11/21	12/02		02/23 03/05 03/09 03/22 03/28 250
LIBERTY 5 W							MS 5070 350 31.17 -90.88 7 AMITE
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/10	10/19	10/26	11/03	11/14		03/22 03/27 04/04 04/08 04/12 205
32F	10/25	11/03	11/09	11/12	11/26		03/02 03/14 03/23 03/27 04/07 231
28F	11/03	11/12	11/16	11/26	12/05		02/17 02/28 03/07 03/20 03/28 254
26F	11/10	11/16	11/30	12/08	12/25		02/07 02/17 02/28 03/08 03/24 275
LOUISVILLE							MS 5247 580 33.13 -89.07 6 WINSTON
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/14	10/21	10/26	11/04	11/13		03/20 03/28 04/07 04/09 04/15 202
32F	10/26	11/05	11/11	11/14	11/21		03/18 03/23 03/26 04/05 04/13 230
28F	11/05	11/14	11/17	11/28	12/04		02/17 03/06 03/15 03/22 03/31 247
26F	11/13	11/19	11/26	12/05	12/13		02/08 02/25 03/06 03/13 03/25 265
MCCOMB FAA AIRPORT							MS 5614 410 31.23 -90.47 8 PIKE
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/20	10/27	11/04	11/09	11/15		03/09 03/25 03/28 04/04 04/13 221
32F	11/02	11/10	11/13	11/21	12/02		03/01 03/08 03/19 03/24 04/01 239
28F	11/10	11/16	11/27	12/04	12/18		02/12 02/24 03/03 03/08 03/23 269
26F	11/13	11/24	12/07	12/12	12/24		01/24 02/11 02/23 03/01 03/16 287
MERIDIAN WSO ARPT							MS 5776 290 32.33 -88.75 9 LAUDERDALE
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/06	10/19	10/25	10/30	11/11		03/23 03/27 04/06 04/10 04/17 202
32F	10/20	10/26	11/04	11/11	11/15		03/08 03/20 03/25 03/30 04/08 224
28F	11/05	11/14	11/19	11/29	12/11		02/13 02/25 03/05 03/14 03/24 259
26F	11/09	11/19	12/02	12/06	12/20		02/07 02/17 02/27 03/06 03/23 278
MINSTER CITY 1 NE							MS 5897 150 33.75 -90.28 4 LEFLORE
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/20	10/25	10/31	11/08	11/13		03/17 03/23 03/28 04/06 04/12 217
32F	11/03	11/09	11/14	11/21	12/02		02/17 03/05 03/10 03/22 03/31 249
28F	11/05	11/14	11/21	11/30	12/17		02/07 02/17 02/27 03/07 03/24 267
26F	11/14	11/23	12/03	12/09	12/20		01/28 02/11 02/20 02/28 03/12 286

Frost / Freeze Analysis in the Southern Climate Region

Mississippi

STATION		ST	ID	ELEV	LAT	LON	CD	County				
MONTICELLO		MS	5987	220	31.55	-90.10	8	LAWRENCE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/08	10/20	10/25	11/08	11/14		03/19	03/25	04/07	04/10	04/16	201
32F	10/22	10/30	11/04	11/14	11/27		03/09	03/20	03/24	03/28	04/10	225
28F	11/01	11/09	11/15	11/28	12/07		02/13	02/25	03/04	03/17	03/25	256
26F	11/09	11/16	11/30	12/09	12/24		02/09	02/17	02/27	03/07	03/22	276
MOORHEAD		MS	6009	120	33.45	-90.52	4	SUNFLOWER				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/08	10/20	10/25	11/08	11/14		03/19	03/25	04/07	04/10	04/16	201
32F	10/25	11/04	11/10	11/14	12/01		03/03	03/15	03/22	03/27	04/12	233
28F	11/03	11/14	11/21	12/01	12/09		02/08	02/26	03/07	03/15	03/25	259
26F	11/04	11/16	12/04	12/10	12/20		01/27	02/13	02/24	03/07	03/23	283
NATCHEZ		MS	6177	190	31.55	-91.38	7	ADAMS				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	10/28	11/05	11/12	11/23		03/03	03/20	03/25	03/31	04/12	225
32F	10/30	11/08	11/15	11/25	12/02		02/21	03/03	03/11	03/22	04/04	249
28F	11/17	11/30	12/05	12/09	12/21		02/07	02/14	02/25	03/06	03/22	283
26F	11/20	12/06	12/10	12/17	12/25		01/27	02/08	02/12	02/25	03/22	301
ONWARD		MS	6562	100	32.72	-90.93	4	SHARKEY				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/05	10/15	10/20	10/30	11/14		03/15	03/23	03/29	04/06	04/11	205
32F	10/18	10/28	11/09	11/12	11/19		02/26	03/06	03/15	03/23	04/07	239
28F	10/27	11/10	11/15	11/23	12/07		02/09	02/18	03/04	03/12	03/25	256
26F	11/05	11/17	11/30	12/07	12/19		02/07	02/13	02/23	03/04	03/22	280
PASCAGOULA 3 NE		MS	6718	10	30.40	-88.48	0	JACKSON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/31	11/14	11/23	12/05	12/17		02/11	02/24	03/07	03/21	03/25	261
32F	11/16	12/01	12/08	12/18	12/29		02/04	02/13	02/26	03/08	03/23	285
28F	12/01	12/11	12/18	12/27	01/13		01/13	02/04	02/12	02/25	03/04	309
26F	12/07	12/18	12/25	01/11	01/18		01/09	01/23	02/04	02/13	02/26	324
PICAYUNE		MS	6921	60	30.52	-89.70	0	PEARL RIVER				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/19	10/25	11/04	11/10	11/21		03/02	03/18	03/23	03/28	04/12	226
32F	11/03	11/11	11/15	11/21	12/06		02/17	02/28	03/08	03/20	03/28	252
28F	11/13	11/24	12/02	12/10	12/24		01/15	02/08	02/16	02/27	03/21	289
26F	11/23	12/08	12/17	12/23	01/14		01/15	02/01	02/14	02/25	03/03	306

Frost / Freeze Analysis in the Southern Climate Region

Mississippi

STATION	ST	ID	ELEV	LAT	LON	CD	County				
PICKENS	MS	6926	220	32.88	-89.98	5					
FALL						SPRING					
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/04	10/10	10/18	10/20	10/29	03/27	04/06	04/09	04/13	04/24	192
32F	10/14	10/20	10/26	11/03	11/14	03/13	03/23	03/27	04/03	04/13	213
28F	10/21	11/03	11/10	11/14	11/24	02/22	03/05	03/09	03/24	04/06	246
26F	11/02	11/09	11/14	11/23	12/06	02/16	02/26	03/06	03/12	03/25	253
PONTOTOC EXP STN	MS	7111	400	34.15	-89.00	3	PONTOTOC				
FALL						SPRING					
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/03	10/13	10/20	10/25	11/02	03/23	04/06	04/11	04/14	04/25	192
32F	10/21	10/26	11/05	11/10	11/15	03/19	03/26	04/04	04/10	04/17	215
28F	10/27	11/07	11/13	11/18	11/30	03/04	03/11	03/19	03/23	04/12	239
26F	11/05	11/13	11/16	11/27	12/04	02/16	03/02	03/15	03/22	04/03	246
POPLARVILLE EXP STN	MS	7128	310	30.85	-89.55	0	PEARL RIVER				
FALL						SPRING					
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/22	11/04	11/10	11/14	12/03	02/28	03/14	03/21	03/27	04/12	234
32F	11/04	11/14	11/22	12/01	12/07	02/15	02/27	03/06	03/13	03/23	261
28F	11/13	11/30	12/08	12/14	12/25	02/08	02/16	02/26	03/07	03/22	285
26F	11/27	12/07	12/13	12/20	01/04	01/14	02/05	02/16	02/26	03/15	300
PORT GIBSON 1 NW	MS	7132	120	31.97	-91.00	7	CLAIBORNE				
FALL						SPRING					
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/06	10/17	10/24	10/30	11/13	03/20	03/27	04/06	04/10	04/15	201
32F	10/20	10/26	11/06	11/12	11/19	03/07	03/21	03/25	03/31	04/08	226
28F	11/05	11/12	11/15	11/22	12/04	02/14	02/28	03/09	03/21	03/25	251
26F	11/07	11/15	11/22	12/05	12/10	02/09	02/19	03/04	03/09	03/24	263
RICHTON 3 SSE	MS	7444	170	31.30	-88.90	9	PERRY				
FALL						SPRING					
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/05	10/12	10/20	10/26	11/04	03/27	04/07	04/11	04/16	05/01	192
32F	10/15	10/25	10/27	11/04	11/12	03/11	03/24	03/28	04/04	04/11	213
28F	10/26	11/04	11/12	11/17	12/06	02/25	03/07	03/21	03/25	04/05	236
26F	11/01	11/11	11/19	12/01	12/07	02/08	02/24	02/28	03/15	03/25	264
STATE UNIVERSITY	MS	8374	190	33.47	-88.78	6	OKTIBBEHA				
FALL						SPRING					
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/09	10/21	10/29	11/04	11/08	03/19	03/28	04/05	04/09	04/16	207
32F	10/31	11/05	11/11	11/14	11/20	03/05	03/17	03/23	03/27	04/07	233
28F	11/05	11/14	11/22	11/29	12/04	02/09	02/27	03/07	03/18	03/30	260
26F	11/13	11/23	11/30	12/06	12/17	02/08	02/20	02/28	03/07	03/23	275

Frost / Freeze Analysis in the Southern Climate Region

Mississippi

STATION		ST	ID	ELEV	LAT	LON	CD	County				
STONEVILLE EXP STN		MS	8445	130	33.43	-90.92	4	WASHINGTON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/13	10/24	10/28	11/07	11/15		03/12	03/23	03/29	04/07	04/13	213
32F	10/25	11/05	11/12	11/16	11/30		02/16	03/08	03/18	03/24	03/31	239
28F	11/05	11/17	11/30	12/08	12/20		02/07	02/13	03/02	03/07	03/24	273
26F	11/14	11/23	12/03	12/10	12/20		01/28	02/10	02/19	02/27	03/22	287
TUPELO WSO ARPT		MS	9003	360	34.27	-88.77	3	LEE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/03	10/08	10/14	10/20	11/10		03/28	04/11	04/22	04/27	05/04	175
32F	10/06	10/20	10/25	10/30	11/13		03/17	04/04	04/08	04/10	04/23	200
28F	10/18	11/02	11/04	11/13	12/02		02/25	03/18	03/25	03/31	04/08	224
26F	11/02	11/08	11/13	11/17	12/05		02/16	03/17	03/22	03/26	04/04	236
TYLERTOWN 2 WNW		MS	9048	440	31.12	-90.18	8	WALTHALL				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	10/26	10/30	11/07	11/17		03/18	03/23	03/28	04/06	04/13	216
32F	10/30	11/05	11/11	11/19	12/01		03/02	03/13	03/23	03/26	04/05	233
28F	11/09	11/17	11/30	12/07	12/22		02/12	02/24	03/03	03/12	03/24	272
26F	11/18	12/01	12/07	12/14	12/24		01/17	02/12	02/26	03/05	03/22	284
UNIVERSITY		MS	9079	380	34.38	-89.53	2	LAFAYETTE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/26	10/04	10/06	10/14	10/22		04/06	04/16	04/25	04/29	05/11	164
32F	10/03	10/13	10/20	10/26	11/06		03/28	04/06	04/10	04/15	04/24	193
28F	10/19	10/29	11/04	11/10	11/18		03/17	03/23	03/27	04/08	04/13	222
26F	10/31	11/08	11/12	11/15	11/30		03/11	03/19	03/24	03/28	04/12	233
WATER VALLEY 1 NNE		MS	9400	380	34.17	-89.63	2	YALOBUSHA				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/04	10/13	10/20	10/25	10/30		03/28	04/07	04/11	04/15	04/24	192
32F	10/14	10/25	10/30	11/06	11/14		03/19	03/28	04/07	04/10	04/18	206
28F	10/28	11/07	11/12	11/15	12/01		03/06	03/20	03/24	03/28	04/07	233
26F	11/05	11/13	11/15	11/22	12/02		02/27	03/07	03/17	03/23	03/30	243
WOODVILLE 4 ESE		MS	9793	400	31.10	-91.23	7	WILKINSON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	11/04	11/06	11/12	11/25		03/03	03/18	03/25	04/02	04/09	226
32F	11/05	11/14	11/18	11/30	12/06		02/14	03/03	03/08	03/22	04/02	255
28F	11/15	11/30	12/07	12/15	01/02		01/27	02/11	02/22	03/04	03/16	288
26F	11/24	12/07	12/15	12/21	01/13		01/17	02/07	02/12	02/22	03/05	306

Frost / Freeze Analysis in the Southern Climate Region

Mississippi

STATION	ST	ID	ELEV	LAT	LON	CD	County					
YAZOO CITY 5 NNE	MS	9860	110	32.90	-90.38	4	YAZOO					
<hr/>												
	FALL					SPRING						
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/14	10/20	10/26	11/11	11/16		03/18	03/25	04/03	04/08	04/16	206
32F	10/21	11/04	11/12	11/19	11/29		02/26	03/08	03/23	04/02	04/12	234
28F	11/05	11/14	11/22	12/06	12/14		02/08	02/21	03/07	03/16	04/04	260
26F	11/12	11/22	12/04	12/09	12/19		02/07	02/13	02/23	03/04	03/22	284

Frost / Freeze Analysis in the Southern Climate Region

Oklahoma

STATION		ST	ID	ELEV	LAT	LONG	CD	County
ADA		OK	0017	1020	34.78	-96.68	8	PONTOTOC
FALL								SPRING
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD								
36F	10/11	10/22	10/28	11/02	11/09	03/22	04/03	04/07 04/11 04/20 204
32F	10/20	11/03	11/07	11/13	11/20	03/09	03/26	03/30 04/04 04/09 222
28F	11/04	11/12	11/18	11/21	12/02	03/05	03/16	03/22 03/25 04/03 241
26F	11/07	11/17	11/22	12/02	12/10	02/17	03/05	03/13 03/16 03/30 254
ALTUS IRIG RES STATION OK 0179 1380 34.58 -99.33 7 JACKSON								
FALL								SPRING
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD								
36F	10/04	10/13	10/19	10/27	11/04	03/26	04/05	04/07 04/15 04/24 195
32F	10/19	10/25	11/04	11/10	11/16	03/20	03/30	04/05 04/07 04/12 213
28F	10/20	11/08	11/15	11/23	11/29	03/09	03/24	03/27 04/04 04/11 233
26F	10/31	11/11	11/19	11/29	12/04	02/25	03/14	03/20 03/25 04/05 244
ALTUS DAM OK 0184 1530 34.88 -99.30 7 KIOWA								
FALL								SPRING
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD								
36F	10/09	10/13	10/19	11/03	11/10	03/22	04/02	04/07 04/12 04/16 195
32F	10/12	10/29	11/07	11/11	11/20	03/19	03/25	04/03 04/05 04/09 218
28F	10/22	11/10	11/11	11/19	11/21	03/05	03/14	03/23 03/25 04/07 233
26F	10/29	11/11	11/19	11/28	12/03	02/19	03/06	03/14 03/22 04/05 250
ANADARKO 2 NNE OK 0224 1200 35.10 -98.23 7 CADDO								
FALL								SPRING
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD								
36F	09/26	10/03	10/12	10/16	10/27	04/04	04/12	04/19 04/28 05/08 176
32F	10/10	10/17	10/23	10/29	11/07	03/27	04/05	04/09 04/15 04/22 197
28F	10/18	10/31	11/06	11/11	11/19	03/16	03/25	03/30 04/05 04/12 221
26F	10/20	11/04	11/11	11/19	11/27	03/07	03/14	03/25 04/01 04/07 231
ANTLERS OK 0256 520 34.25 -95.63 9 PUSHMATAHA								
FALL								SPRING
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD								
36F	10/02	10/11	10/18	10/24	10/30	03/27	04/06	04/09 04/13 04/25 192
32F	10/12	10/23	11/01	11/08	11/15	03/15	03/28	04/03 04/08 04/12 212
28F	10/21	11/09	11/14	11/20	12/07	02/19	03/11	03/22 03/25 04/04 237
26F	11/02	11/13	11/20	11/29	12/07	02/14	03/08	03/14 03/22 04/03 251
ARDMORE OK 0292 860 34.20 -97.15 8 CARTER								
FALL								SPRING
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD								
36F	10/20	11/03	11/08	11/12	11/18	03/16	03/25	03/31 04/05 04/11 222
32F	11/04	11/10	11/13	11/20	12/03	02/28	03/07	03/21 03/30 04/07 237
28F	11/13	11/22	12/01	12/05	12/13	02/17	03/05	03/09 03/19 03/30 267
26F	11/13	11/28	12/03	12/10	12/20	02/07	02/22	03/06 03/12 03/26 272

Frost / Freeze Analysis in the Southern Climate Region

Oklahoma

STATION		ST	ID	ELEV	LAT	LON	CD	County
BARTLESVILLE	2 W	OK	0548	710	36.75	-96.00	3	OSAGE
FALL								SPRING
T	10%	30%	50%	70%	90%	90%	70%	50%
36F	09/24	10/03	10/10	10/12	10/25	04/08	04/14	04/20
32F	10/05	10/12	10/20	10/28	11/07	03/21	04/03	04/09
28F	10/20	10/27	11/04	11/11	11/19	03/13	03/21	03/30
26F	10/25	11/05	11/14	11/19	11/29	03/09	03/16	03/24
FFD								
173								
194								
219								
235								
BEAVER		OK	0593	2470	36.82	-100.53	1	BEAVER
FALL								SPRING
T	10%	30%	50%	70%	90%	90%	70%	50%
36F	09/25	10/01	10/09	10/15	10/27	04/14	04/23	04/30
32F	09/29	10/11	10/18	10/24	10/30	04/04	04/12	04/17
28F	10/13	10/25	11/01	11/07	11/14	03/25	04/02	04/05
26F	10/20	11/02	11/05	11/10	11/19	03/20	03/31	04/03
FFD								
162								
184								
210								
216								
BOISE CITY	2 E	OK	0908	4140	36.73	-102.48	1	CIMARRON
FALL								SPRING
T	10%	30%	50%	70%	90%	90%	70%	50%
36F	09/18	09/30	10/10	10/13	10/20	04/22	05/03	05/08
32F	09/29	10/11	10/16	10/20	10/27	04/11	04/24	04/30
28F	10/08	10/16	10/24	11/01	11/10	03/22	04/06	04/14
26F	10/13	10/25	11/01	11/09	11/19	03/20	04/04	04/09
FFD								
155								
169								
193								
206								
BUFFALO		OK	1243	1800	36.83	-99.62	1	HARPER
FALL								SPRING
T	10%	30%	50%	70%	90%	90%	70%	50%
36F	09/26	10/02	10/09	10/14	10/25	04/10	04/19	04/29
32F	09/30	10/12	10/15	10/24	11/01	04/05	04/07	04/14
28F	10/14	10/25	11/03	11/09	11/13	03/21	03/31	04/04
26F	10/20	11/03	11/10	11/12	11/26	03/19	03/25	04/01
FFD								
163								
184								
213								
223								
CHANDLER	1	OK	1684	950	35.70	-96.88	2	LINCOLN
FALL								SPRING
T	10%	30%	50%	70%	90%	90%	70%	50%
36F	10/09	10/15	10/21	10/28	11/04	03/31	04/05	04/11
32F	10/15	10/29	11/04	11/10	11/16	03/18	03/28	04/04
28F	11/02	11/10	11/13	11/20	11/28	03/05	03/16	03/23
26F	11/07	11/13	11/18	11/26	12/05	02/22	03/07	03/12
FFD								
193								
214								
235								
251								
CHATTANOOGA	3 NE	OK	1706	1150	34.45	-98.62	7	COMANCHE
FALL								SPRING
T	10%	30%	50%	70%	90%	90%	70%	50%
36F	10/09	10/14	10/20	10/26	11/08	03/22	04/04	04/10
32F	10/20	11/02	11/06	11/11	11/17	03/22	04/01	04/05
28F	10/31	11/05	11/12	11/20	11/28	03/07	03/17	03/24
26F	11/03	11/12	11/21	11/28	12/06	02/24	03/08	03/20
FFD								
193								
215								
233								
246								

Frost / Freeze Analysis in the Southern Climate Region

Oklahoma

STATION	ST	ID	ELEV	LAT	LON	CD	County
CHICKASHA EXPERIMENT	ST	OK 1750	1090	35.05	-97.92	5	GRADY
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	09/30	10/12	10/17	10/24	10/30		04/02 04/09 04/14 04/19 04/30 186
32F	10/13	10/21	10/28	11/04	11/14		03/17 03/27 04/04 04/06 04/14 207
28F	11/01	11/10	11/12	11/21	12/02		03/05 03/18 03/25 04/01 04/07 232
26F	11/02	11/11	11/18	11/27	12/03		02/20 03/08 03/19 03/24 04/03 244
CLAREMORE	2	ENE	OK 1828	590	36.32	-95.58	3 ROGERS
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/01	10/06	10/12	10/18	10/29		04/09 04/13 04/19 04/24 05/02 176
32F	10/10	10/20	10/25	10/29	11/11		03/23 03/31 04/06 04/13 04/19 202
28F	10/26	11/05	11/10	11/17	11/28		03/14 03/21 03/27 04/04 04/13 228
26F	11/03	11/09	11/16	11/21	12/02		03/06 03/18 03/24 03/31 04/07 237
CLINTON			OK 1909	1610	35.52	-98.97	4 CUSTER
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/05	10/13	10/19	10/25	11/02		04/01 04/11 04/16 04/24 05/08 186
32F	10/12	10/20	11/01	11/07	11/12		03/21 04/01 04/04 04/07 04/19 211
28F	10/25	11/04	11/11	11/20	11/28		03/09 03/21 03/25 04/01 04/06 231
26F	10/31	11/10	11/14	11/24	11/29		03/05 03/09 03/23 03/27 04/05 236
CUSHING			OK 2318	950	35.98	-96.77	5 PAYNE
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/05	10/17	10/24	10/29	11/09		03/23 04/03 04/06 04/10 04/20 201
32F	10/19	11/04	11/07	11/11	11/20		03/19 03/26 04/02 04/06 04/13 219
28F	11/04	11/11	11/16	11/22	11/29		03/05 03/09 03/20 03/25 04/04 241
26F	11/11	11/15	11/21	12/01	12/08		02/23 03/07 03/14 03/22 03/31 252
DUNCAN			OK 2660	1130	34.50	-97.97	8 STEPHENS
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/14	10/22	10/29	11/03	11/12		03/22 04/02 04/05 04/07 04/15 207
32F	10/22	11/04	11/10	11/15	11/21		03/02 03/16 03/27 04/05 04/11 228
28F	11/09	11/15	11/23	11/28	12/09		02/22 03/07 03/14 03/23 04/03 254
26F	11/11	11/23	11/28	12/06	12/17		02/10 02/26 03/06 03/14 03/23 267
DURANT	USDA		OK 2678	660	34.02	-96.38	8 BRYAN
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/12	10/22	10/26	11/04	11/13		03/19 04/01 04/05 04/12 04/19 204
32F	10/19	10/25	11/08	11/14	11/21		03/06 03/23 03/27 04/05 04/15 226
28F	10/28	11/11	11/19	11/27	12/18		02/17 03/07 03/16 03/25 04/12 248
26F	11/04	11/13	11/23	12/03	12/24		02/16 03/02 03/06 03/15 04/03 262

Frost / Freeze Analysis in the Southern Climate Region

Oklahoma

STATION		ST	ID	ELEV	LAT	LON	CD	County				
EL RENO 1 N		OK	2818	1320	35.55	-97.97	5	CANADIAN				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/30	10/10	10/16	10/25	11/05		04/05	04/12	04/14	04/19	04/29	185
32F	10/14	10/20	10/29	11/05	11/19		03/21	04/02	04/05	04/09	04/21	207
28F	10/22	11/04	11/10	11/14	11/29		03/16	03/24	03/27	04/04	04/11	228
26F	11/02	11/10	11/14	11/21	12/06		03/07	03/20	03/24	03/30	04/05	235
ENID		OK	2912	1250	36.42	-97.87	2	GARFIELD				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/04	10/14	10/22	10/28	11/02		03/31	04/06	04/12	04/16	04/24	193
32F	10/19	11/02	11/04	11/09	11/14		03/20	03/26	04/02	04/08	04/15	216
28F	10/31	11/09	11/11	11/20	11/29		03/06	03/20	03/25	04/01	04/06	231
26F	11/03	11/14	11/21	11/29	12/03		02/27	03/12	03/20	03/25	04/05	246
ERICK 4 E		OK	2944	1990	35.20	-99.80	4	BECKHAM				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/27	10/08	10/12	10/15	10/27		04/02	04/13	04/21	04/29	05/13	174
32F	10/09	10/16	10/22	11/01	11/13		03/23	04/02	04/07	04/13	04/23	198
28F	10/16	10/29	11/07	11/10	11/21		03/18	03/27	04/03	04/06	04/15	218
26F	10/27	11/04	11/10	11/19	11/26		03/14	03/20	03/25	04/04	04/08	230
GAGE FAA AIRPORT		OK	3407	2190	36.30	-99.77	1	ELLIS				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/25	10/01	10/08	10/12	10/24		04/07	04/18	04/29	05/04	05/13	162
32F	09/30	10/11	10/15	10/25	11/03		04/02	04/08	04/14	04/21	04/30	184
28F	10/17	10/25	11/03	11/08	11/12		03/21	03/27	04/04	04/06	04/16	213
26F	10/24	11/03	11/08	11/11	11/19		03/19	03/25	04/01	04/05	04/08	221
GEARY		OK	3497	1600	35.63	-98.32	4	BLAINE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/04	10/14	10/20	10/27	11/06		04/01	04/07	04/14	04/21	05/03	189
32F	10/19	10/28	11/03	11/10	11/14		03/19	03/28	04/02	04/06	04/16	215
28F	11/03	11/09	11/11	11/20	12/01		03/06	03/21	03/25	04/01	04/06	231
26F	11/03	11/11	11/21	11/28	12/03		02/26	03/08	03/16	03/23	03/30	250
GOODWELL RESEARCH STN		OK	3628	3310	36.60	-101.62	1	TEXAS				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/23	09/30	10/10	10/14	10/21		04/17	04/27	05/03	05/10	05/17	160
32F	09/29	10/12	10/19	10/25	10/30		04/08	04/16	04/26	01/24	05/12	176
28F	10/10	10/17	10/30	11/04	11/13		03/30	04/05	04/13	04/24	05/02	200
26F	10/16	11/02	11/08	11/10	11/18		03/19	03/30	04/04	04/08	04/21	218

Frost / Freeze Analysis in the Southern Climate Region

Oklahoma

STATION	ST	ID	ELEV	LAT	LON	CD	County
GUTHRIE	OK	3821	1030	35.88	-97.45	5	LOGAN
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/02	10/10	10/15	10/24	11/08		04/02 04/08 04/15 04/24 05/08 183
32F	10/16	10/20	10/28	11/04	11/13		03/23 04/02 04/05 04/10 04/22 206
28F	10/20	11/05	11/11	11/21	11/28		03/07 03/23 03/27 04/03 04/07 229
26F	11/04	11/11	11/16	11/22	12/01		02/27 03/16 03/23 03/28 04/05 238
HOBART FAA AP	OK	4204	1560	35.00	-99.05	7	KIOWA
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	09/30	10/13	10/22	10/27	11/10		04/02 04/07 04/14 04/20 04/29 191
32F	10/12	10/28	11/06	11/11	11/18		03/23 04/02 04/05 04/08 04/15 215
28F	10/26	11/10	11/12	11/20	12/01		03/09 03/18 03/24 04/03 04/08 233
26F	10/31	11/12	11/20	11/29	12/04		03/05 03/11 03/21 03/25 04/05 244
HOLDENVILLE	OK	4235	860	35.08	-96.40	6	HUGHES
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/09	10/14	10/22	10/31	11/11		03/22 04/04 04/07 04/12 04/21 198
32F	10/20	11/02	11/04	11/11	11/19		03/17 03/25 04/02 04/06 04/15 216
28F	11/03	11/11	11/16	11/22	11/29		02/17 03/09 03/22 03/26 04/03 239
26F	11/03	11/13	11/21	12/02	12/10		02/17 03/05 03/09 03/22 03/30 257
HOLLIS	OK	4249	1630	34.70	-99.92	7	HARMON
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/02	10/11	10/16	10/28	11/03		03/27 04/07 04/11 04/19 04/30 188
32F	10/15	10/20	11/02	11/08	11/15		03/23 04/01 04/05 04/07 04/15 211
28F	10/23	11/04	11/10	11/16	11/21		03/09 03/21 03/27 04/03 04/11 228
26F	10/28	11/11	11/18	11/21	12/02		02/28 03/19 03/23 03/31 04/07 240
HOOKER	OK	4298	3000	36.87	-101.22	1	TEXAS
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	09/23	09/30	10/11	10/17	10/23		04/14 04/23 05/01 05/10 05/15 163
32F	09/29	10/12	10/18	10/25	10/30		04/02 04/10 04/16 04/30 05/11 185
28F	10/15	10/23	11/02	11/06	11/17		03/18 04/01 04/04 04/12 04/27 212
26F	10/16	11/02	11/07	11/10	11/18		03/17 03/29 04/02 04/06 04/16 219
HUGO	OK	4384	570	34.00	-95.52	9	CHOCTAW
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/14	10/22	11/02	11/10	11/17		03/23 03/28 04/05 04/07 04/19 211
32F	10/20	11/04	11/10	11/15	11/22		03/07 03/20 03/24 03/28 04/10 231
28F	11/03	11/14	11/22	11/28	12/08		02/15 03/02 03/10 03/19 03/31 257
26F	11/04	11/19	11/26	12/06	12/19		02/08 02/17 03/05 03/09 03/26 266

Frost / Freeze Analysis in the Southern Climate Region

Oklahoma

STATION	ST	ID	ELEV	LAT	LON	CD	County				
IDABEL	OK	4451	460	33.88	-94.82	9	MCCURTAIN				
	FALL					SPRING					
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/07	10/19	10/25	11/04	11/17	03/23	03/31	04/06	04/09	04/17	202
32F	10/20	11/04	11/10	11/17	11/29	03/08	03/23	03/30	04/06	04/11	225
28F	11/02	11/11	11/14	11/22	12/05	02/23	03/06	03/11	03/20	03/26	248
26F	11/05	11/16	11/28	12/04	12/16	02/16	03/02	03/06	03/12	03/23	267
LAWTON	OK	5063	1150	34.62	-98.45	7	COMANCHE				
	FALL					SPRING					
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/10	10/18	10/26	11/02	11/12	03/22	04/01	04/05	04/09	04/26	204
32F	10/20	11/03	11/10	11/16	11/29	03/13	03/23	03/29	04/05	04/13	226
28F	11/07	11/13	11/20	11/23	12/09	02/23	03/08	03/15	03/23	03/31	250
26F	11/11	11/21	11/27	12/05	12/22	02/10	02/21	03/06	03/15	03/28	266
MARIETTA	OK	5563	840	33.93	-97.12	8	LOVE				
	FALL					SPRING					
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/13	10/24	11/03	11/09	11/16	03/22	04/01	04/05	04/12	04/15	212
32F	11/01	11/04	11/10	11/15	11/20	03/13	03/24	03/29	04/03	04/12	226
28F	11/03	11/11	11/18	11/23	12/05	02/17	03/06	03/14	03/23	04/03	249
26F	11/12	11/20	11/25	12/03	12/14	02/14	03/04	03/09	03/23	03/30	261
MCALESTER FAA AIRPORT	OK	5664	760	34.88	-95.78	6	PITTSBURG				
	FALL					SPRING					
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	10/10	10/17	10/22	10/27	11/06	03/23	04/05	04/09	04/15	04/28	196
32F	10/16	10/26	11/01	11/11	11/16	03/21	03/27	04/02	04/06	04/12	213
28F	10/31	11/07	11/13	11/21	11/29	03/05	03/20	03/23	03/28	04/09	235
26F	11/02	11/10	11/18	11/28	12/06	02/22	03/06	03/13	03/23	03/31	250
MIAMI	OK	5855	810	36.88	-94.88	3	OTTAWA				
	FALL					SPRING					
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	09/23	10/01	10/08	10/12	10/25	04/06	04/13	04/20	04/28	05/04	171
32F	10/09	10/17	10/20	10/29	11/09	03/30	04/07	04/12	04/17	04/22	191
28F	10/25	11/05	11/10	11/13	11/25	03/19	03/25	03/31	04/04	04/12	224
26F	10/29	11/10	11/14	11/21	11/29	03/06	03/15	03/21	03/26	04/04	238
MUSKOGEE	OK	6130	580	35.77	-95.33	6	MUSKOGEE				
	FALL					SPRING					
T	10%	30%	50%	70%	90%	90%	70%	50%	30%	10%	FFD
36F	09/30	10/12	10/19	10/27	11/05	03/22	04/05	04/12	04/19	04/28	190
32F	10/20	10/25	11/02	11/11	11/16	03/20	03/25	04/02	04/05	04/12	214
28F	11/03	11/11	11/17	11/23	12/06	02/27	03/11	03/19	03/24	04/04	243
26F	11/05	11/14	11/21	11/26	12/06	02/15	03/07	03/16	03/21	03/27	250

Frost / Freeze Analysis in the Southern Climate Region

Oklahoma

STATION	ST	ID	ELEV	LAT	LON	CD	County
NOWATA	OK	6485	730	36.70	-95.63	3	NOWATA
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/01	10/09	10/14	10/19	11/02		03/31 04/12 04/15 04/21 05/01 182
32F	10/11	10/22	10/29	11/06	11/13		03/21 03/31 04/06 04/13 04/21 206
28F	10/21	11/05	11/11	11/17	11/28		03/06 03/20 03/25 03/30 04/04 231
26F	10/31	11/10	11/13	11/20	11/28		02/27 03/17 03/23 03/26 04/04 235
OKEENE	OK	6629	1210	36.12	-98.32	4	BLAINE
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/01	10/11	10/18	10/26	11/01		04/05 04/16 04/20 04/29 05/08 181
32F	10/17	10/20	11/02	11/08	11/14		03/22 04/02 04/05 04/12 04/19 211
28F	10/23	11/06	11/11	11/15	11/29		03/08 03/18 03/25 04/04 04/08 231
26F	10/31	11/11	11/15	11/21	12/01		03/08 03/16 03/23 03/27 04/05 237
OKEMAH	OK	6638	940	35.43	-96.30	5	OKFUSKEE
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/11	10/20	10/26	11/02	11/10		03/21 04/01 04/05 04/09 04/21 204
32F	10/24	11/04	11/07	11/11	11/19		03/13 03/22 03/27 04/03 04/12 225
28F	11/04	11/11	11/17	11/25	12/03		03/01 03/09 03/20 03/25 04/03 242
26F	11/05	11/15	11/21	11/30	12/11		02/17 03/06 03/13 03/22 03/30 253
OKLAHOMA CITY WSFO AP	OK	6661	1280	35.40	-97.60	5	OKLAHOMA
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/11	10/19	10/29	11/03	11/13		03/22 04/01 04/05 04/12 04/19 207
32F	10/19	11/01	11/07	11/10	11/16		03/20 03/26 04/03 04/06 04/12 218
28F	11/03	11/10	11/15	11/21	11/30		03/07 03/18 03/24 03/30 04/05 236
26F	11/11	11/14	11/25	12/03	12/11		02/22 03/06 03/13 03/24 03/30 257
OKMULGEE WATER WORKS	OK	6670	650	35.62	-96.02	6	OKMULGEE
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	09/23	10/01	10/10	10/14	11/02		03/22 04/08 04/14 04/16 04/27 179
32F	10/06	10/19	10/25	11/04	11/15		03/06 03/27 04/03 04/07 04/15 205
28F	10/16	10/25	11/05	11/13	11/24		02/22 03/20 03/26 03/30 04/12 224
26F	10/24	11/08	11/14	11/21	11/29		02/22 03/11 03/17 03/25 04/07 242
PAULS VALLEY 4 WSW	OK	6926	940	34.73	-97.28	8	GARVIN
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/07	10/15	10/22	10/26	11/06		03/22 04/04 04/09 04/13 04/24 196
32F	10/19	10/23	11/01	11/08	11/16		03/20 03/28 04/05 04/07 04/16 210
28F	10/30	11/09	11/11	11/17	11/28		03/07 03/20 03/28 04/02 04/07 228
26F	11/02	11/11	11/21	11/29	12/06		02/23 03/08 03/19 03/24 04/03 247

Frost / Freeze Analysis in the Southern Climate Region

Oklahoma

STATION		ST	ID	ELEV	LAT	LON	CD	County				
PONCA CITY FAA AIRPORT		OK	7201	1000	36.73	-97.10	2	KAY				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/30	10/09	10/12	10/21	11/04		04/05	04/14	04/19	04/29	05/12	176
32F	10/12	10/19	10/25	11/01	11/10		03/23	04/05	04/08	04/14	04/25	200
28F	10/17	11/04	11/08	11/14	11/22		03/19	03/22	03/26	04/03	04/14	227
26F	11/03	11/09	11/12	11/20	11/29		03/08	03/20	03/24	03/31	04/07	233
PURCELL 5 SW		OK	7327	1040	34.97	-97.43	5	MCCLAIN				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/08	10/13	10/18	10/24	10/29		04/01	04/09	04/14	04/22	05/02	187
32F	10/12	10/20	10/27	11/04	11/12		03/24	04/01	04/05	04/08	04/15	205
28F	10/21	11/06	11/11	11/16	11/26		03/16	03/22	03/31	04/05	04/12	225
26F	11/02	11/11	11/15	11/21	11/29		03/02	03/16	03/23	03/30	04/07	237
SALLISAW 2 NE		OK	7862	530	35.48	-94.77	6	SEQUOYAH				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/29	10/11	10/16	10/20	10/29		04/01	04/12	04/15	04/24	04/30	184
32F	10/15	10/23	11/02	11/08	11/14		03/22	03/29	04/04	04/09	04/19	212
28F	10/30	11/09	11/12	11/17	11/27		03/02	03/12	03/24	04/02	04/12	233
26F	11/02	11/11	11/16	11/23	12/02		02/20	03/08	03/16	03/24	04/04	245
STILLWATER 2 W		OK	8501	900	36.12	-97.10	5	PAYNE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/30	10/09	10/13	10/19	10/29		04/05	04/12	04/16	04/24	05/02	180
32F	10/12	10/20	10/27	11/02	11/10		03/23	04/03	04/07	04/14	04/21	203
28F	10/21	11/04	11/10	11/15	11/26		03/10	03/21	03/26	04/05	04/12	229
26F	10/28	11/11	11/17	11/22	12/01		02/27	03/16	03/15	04/02	04/07	247
TAHLEQUAH		OK	8677	850	35.93	-94.97	6	CHEROKEE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/26	10/04	10/12	10/16	11/05		04/08	04/12	04/23	04/30	05/12	172
32F	10/04	10/16	10/23	11/01	11/18		03/25	04/05	04/12	04/15	04/24	194
28F	10/12	10/27	11/07	11/13	11/26		03/09	03/23	03/31	04/06	04/14	221
26F	10/28	11/08	11/15	11/20	11/29		03/05	03/17	03/24	04/02	04/07	236
TULSA WSO AP		OK	8992	650	36.20	-95.90	3	TULSA				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/12	10/18	10/24	10/29	11/09		03/21	03/30	04/07	04/12	04/21	200
32F	10/26	11/04	11/10	11/11	11/19		03/14	03/22	03/26	04/03	04/08	229
28F	11/05	11/11	11/17	11/24	12/05		02/22	03/09	03/17	03/24	04/02	245
26F	11/05	11/14	11/21	11/29	12/14		02/17	03/05	03/09	03/22	03/30	257

Frost / Freeze Analysis in the Southern Climate Region

Oklahoma

STATION		ST	ID	ELEV	LAT	LON	CD	County
VINITA 2 N		OK	9203	740	36.67	-95.13	3	CRAIG
FALL								SPRING
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	09/29	10/05	10/10	10/14	10/27		04/09	04/14 04/23 04/30 05/09 170
32F	10/05	10/16	10/20	10/26	11/07		03/31	04/08 04/12 04/20 04/30 191
28F	10/20	10/29	11/04	11/11	11/21		12/07	03/21 03/28 04/05 04/15 221
26F	10/31	11/07	11/12	11/19	11/27		03/07	03/18 03/24 03/31 04/07 233
WAURIKA		OK	9395	880	34.17	-98.00	8	JEFFERSON
FALL								SPRING
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	10/10	10/18	10/24	11/01	11/12		03/22	04/02 04/07 04/12 04/19 200
32F	10/22	11/02	11/04	11/11	11/20		03/21	03/25 04/01 04/05 04/17 217
28F	10/27	11/12	11/17	11/21	11/29		03/01	03/11 03/23 03/26 04/05 239
26F	11/11	11/13	11/20	11/29	12/06		02/16	03/06 03/13 03/23 04/03 252
WAYNOKA		OK	9404	1500	36.58	-98.87	2	WOODS
FALL								SPRING
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	09/29	10/07	10/12	10/16	10/25		04/06	04/09 04/16 04/29 05/12 179
32F	09/30	10/14	10/20	10/28	11/04		03/29	04/05 04/10 04/16 04/27 193
28F	10/22	11/02	11/06	11/10	11/19		03/11	03/24 03/30 04/04 04/12 221
26F	10/24	11/04	11/10	11/15	11/24		03/08	03/21 03/30 04/03 04/12 225

Frost / Freeze Analysis in the Southern Climate Region

Tennessee

STATION	ST	ID	ELEV	LAT	LON	CD	County
ALLARDT	TN	0081	1670	36.38	-84.87	2	FENTRESS
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	09/23	10/02	10/04	10/08	10/18		04/16 04/30 05/04 05/10 05/26 153
32F	10/03	10/07	10/14	10/18	10/27		04/03 04/09 04/14 04/24 01/28 183
28F	10/20	10/25	11/01	11/06	11/14		03/19 03/25 04/04 04/11 04/23 211
26F	10/24	10/29	11/06	11/13	11/23		03/17 03/23 04/01 04/09 04/17 219
BOLIVAR 2	TN	0876	460	35.27	-88.98	4	HARDEMAN
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/03	10/07	10/15	10/19	11/01		04/01 04/07 04/14 04/17 05/01 184
32F	10/08	10/17	10/25	10/30	11/13		03/21 03/30 04/07 04/09 04/15 201
28F	10/25	11/03	11/11	11/15	12/01		03/09 03/16 03/23 03/28 04/12 233
26F	11/01	11/08	11/14	11/23	12/04		02/17 03/04 03/15 03/24 04/03 244
BRISTOL WSO AIRPORT	TN	1094	1530	36.48	-82.40	1	SULLIVAN
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/02	10/05	10/07	10/17	10/25		04/16 04/27 05/03 05/10 05/17 157
32F	10/09	10/17	10/20	10/27	11/05		04/08 04/11 04/19 04/26 05/04 184
28F	10/16	10/25	11/03	11/07	11/20		03/23 04/03 04/08 04/13 04/21 209
26F	10/21	11/05	11/11	11/16	11/25		03/09 03/17 03/25 04/02 04/13 231
BROWNSVILLE	TN	1145	330	35.58	-89.25	4	HAYWOOD
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/04	10/15	10/19	10/24	11/05		03/28 04/06 04/09 04/14 04/21 193
32F	10/20	10/24	10/30	11/05	11/14		03/18 03/25 04/03 04/09 04/13 210
28F	11/03	11/07	11/13	11/17	12/01		03/08 03/16 03/20 03/24 04/03 238
26F	11/05	11/13	11/16	11/23	12/06		02/16 02/27 03/14 03/18 03/24 247
CHATTANOOGA WSO AP	TN	1656	690	35.03	-85.20	1	HAMILTON
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/05	10/16	10/21	10/26	11/04		04/02 04/11 04/18 04/24 05/04 186
32F	10/20	10/25	10/31	11/06	11/12		03/21 03/26 04/06 04/10 04/16 208
28F	10/26	11/06	11/13	11/21	11/30		02/27 03/18 03/22 03/30 04/12 236
26F	11/05	11/14	11/19	11/28	12/02		02/24 03/04 03/18 03/24 03/30 246
CLARKSVILLE SEWAGE PLT	TN	1790	380	36.55	-87.37	3	MONTGOMERY
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	09/30	10/04	10/10	10/15	10/22		04/10 04/17 04/27 05/03 05/10 166
32F	10/03	10/13	10/20	10/26	11/04		03/30 04/07 04/14 04/19 04/29 189
28F	10/14	10/25	11/03	11/08	11/23		03/22 03/27 03/31 04/09 04/13 217
26F	10/26	11/08	11/13	11/17	12/02		03/07 03/22 03/27 04/04 04/12 231

Frost / Freeze Analysis in the Southern Climate Region

Tennessee

STATION		ST	ID	ELEV	LAT	LON	CD	County				
COLUMBIA 3 WNW		TN	1957	650	35.63	-87.08	3	MAURY				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/01	10/05	10/09	10/16	10/22		03/28	04/16	04/26	05/04	05/10	166
32F	10/05	10/12	10/18	10/26	11/06		03/25	04/03	04/11	04/16	05/02	190
28F	10/24	10/29	11/05	11/13	11/20		03/17	03/25	03/30	04/05	04/16	220
26F	10/28	11/06	11/11	11/15	11/27		02/27	03/18	03/25	04/01	04/11	231
COPPERHILL		TN	2024	1540	35.00	-84.38	1	POLK				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/24	10/03	10/05	10/09	10/18		04/23	04/28	05/04	05/11	05/23	154
32F	10/04	10/12	10/18	10/20	10/27		03/27	04/12	04/22	04/28	05/14	179
28F	10/20	10/27	11/03	11/10	11/17		03/22	03/30	04/10	04/13	04/22	207
26F	10/24	10/29	11/07	11/15	11/24		03/10	03/19	03/27	04/04	04/15	225
COVINGTON		TN	2108	310	35.57	-89.67	4	TIPTON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/03	10/13	10/18	10/26	11/04		03/24	04/05	04/10	04/14	04/22	191
32F	10/21	10/27	11/03	11/05	11/13		03/19	03/23	04/03	04/09	04/13	214
28F	11/04	11/09	11/13	11/18	12/02		03/02	03/11	03/18	03/25	03/31	240
26F	11/06	11/13	11/17	11/22	12/07		02/23	03/03	03/10	03/19	03/25	252
CROSSVILLE FAA AIRPORT		TN	2197	1880	35.95	-85.08	2	CUMBERLAND				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/24	10/01	10/04	10/06	10/16		04/16	04/25	05/02	05/10	05/19	155
32F	10/03	10/13	10/17	10/19	11/05		04/02	04/09	04/19	04/26	05/05	181
28F	10/14	10/26	11/01	11/09	11/15		03/18	03/26	04/04	04/14	05/01	211
26F	10/19	10/26	11/04	11/13	11/25		03/16	03/22	03/27	04/07	04/16	222
CROSSVILLE EXP STN		TN	2202	1810	36.02	-85.13	2	CUMBERLAND				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/24	10/02	10/04	10/06	10/16		04/21	05/01	05/09	05/14	05/27	148
32F	10/01	10/06	10/14	10/20	11/06		04/04	04/11	04/19	04/26	05/17	178
28F	10/14	10/20	10/25	11/03	11/08		03/23	04/02	04/07	04/14	05/01	201
26F	10/15	10/22	10/28	11/07	11/13		03/19	03/25	04/04	04/10	04/19	207
DAYTON		TN	2360	830	35.48	-85.03	1	RHEA				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/03	10/07	10/11	10/18	10/20		04/16	04/21	04/29	05/07	05/14	165
32F	10/07	10/18	10/21	10/27	11/07		03/26	04/08	04/12	04/21	04/25	192
28F	10/22	10/31	11/05	11/12	11/20		03/17	03/23	04/02	04/08	04/17	217
26F	10/26	11/05	11/14	11/17	11/30		03/15	03/20	03/24	04/01	04/12	235

Frost / Freeze Analysis in the Southern Climate Region

Tennessee

STATION	ST	ID	ELEV	LAT	LON	CD	County						
DICKSON	TN	2489	780	36.07	-87.38	3	DICKSON						
FALL													
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD	
36F	10/03	10/06	10/10	10/18	11/02		04/07	04/15	04/26	05/02	05/11	167	
32F	10/05	10/12	10/20	10/26	11/06		03/27	04/08	04/11	04/16	04/28	192	
28F	10/24	10/29	11/04	11/08	11/15		03/18	03/25	03/31	04/09	04/13	218	
26F	11/02	11/06	11/12	11/15	11/27		03/16	03/22	03/25	03/31	04/12	232	
DOVER	1	NW	TN	2589	480	36.48	-87.85	3	STEWART				
FALL								90%	70%	50%	30%	10%	FFD
T	10%	30%	50%	70%	90%		04/07	04/21	04/29	05/06	05/14	159	
36F	09/29	10/03	10/05	10/12	10/19		03/31	04/11	04/16	04/26	05/07	184	
32F	10/03	10/12	10/17	10/20	11/02		03/22	03/27	04/03	04/10	04/13	210	
28F	10/12	10/25	10/30	11/06	11/17		03/17	03/23	03/27	04/01	04/12	224	
DYERSBURG	FAA	AIRPORT	TN	2685	340	36.02	-89.40	4	DYER				
FALL								90%	70%	50%	30%	10%	FFD
T	10%	30%	50%	70%	90%		03/22	03/27	04/05	04/10	04/16	203	
36F	10/10	10/19	10/25	10/29	11/05		03/05	03/18	03/26	04/04	04/10	225	
32F	10/24	11/02	11/06	11/13	11/20		02/16	03/06	03/16	03/22	03/31	246	
28F	11/04	11/12	11/17	11/25	12/07		02/10	02/26	03/03	03/16	03/25	266	
26F	11/06	11/14	11/24	12/02	12/13								
FRANKLIN	SEWAGE	PLANT	TN	3280	650	35.93	-86.87	3	WILLIAMSON				
FALL								90%	70%	50%	30%	10%	FFD
T	10%	30%	50%	70%	90%		04/11	04/25	05/02	05/06	05/12	156	
36F	09/27	10/04	10/05	10/11	10/22		03/28	04/09	04/14	04/21	05/04	188	
32F	10/05	10/11	10/19	10/25	11/04		03/22	03/26	04/01	04/10	04/16	216	
28F	10/14	10/25	11/03	11/07	11/16		03/16	03/22	03/26	04/01	04/12	226	
26F	10/23	11/01	11/07	11/14	11/27								
GATLINBURG	2	SW	TN	3420	1450	35.68	-83.53	1	SEVIER				
FALL								90%	70%	50%	30%	10%	FFD
T	10%	30%	50%	70%	90%		04/23	05/01	05/08	05/15	05/27	151	
36F	09/30	10/03	10/06	10/08	10/19		04/12	04/21	04/28	05/04	05/09	172	
32F	10/03	10/09	10/17	10/24	11/04		03/23	04/07	04/11	04/15	04/23	196	
28F	10/09	10/17	10/24	10/30	11/07		03/19	03/25	04/03	04/10	04/21	214	
26F	10/15	10/27	11/03	11/11	11/21								
GREENEVILLE	EXP	STN	TN	3679	1320	36.10	-82.85	1	GREENE				
FALL								90%	70%	50%	30%	10%	FFD
T	10%	30%	50%	70%	90%		04/22	05/01	05/04	05/10	05/19	155	
36F	09/28	10/04	10/06	10/11	10/18		04/11	04/19	04/26	05/01	05/10	174	
32F	10/04	10/13	10/17	10/21	10/30		03/23	04/08	04/12	04/17	04/27	200	
28F	10/15	10/25	10/29	11/06	11/13		03/18	03/25	04/03	04/12	04/21	216	
26F	10/20	10/28	11/05	11/08	11/20								

Frost / Freeze Analysis in the Southern Climate Region

Tennessee

STATION	ST	ID	ELEV	LAT	LON	CD	County
JACKSON FCWOS AP	TN	4556	430	35.60	-88.92	4	MADISON
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/03	10/09	10/15	10/21	11/02		03/26 04/06 04/12 04/15 04/23 186
32F	10/13	10/24	10/28	11/05	11/13		03/23 03/28 04/05 04/10 04/16 206
28F	10/26	11/05	11/10	11/15	11/30		03/09 03/16 03/24 03/28 04/10 231
26F	11/05	11/13	11/16	11/25	12/07		02/20 03/06 03/15 03/21 03/28 246
JACKSON EXP STN	TN	4561	400	35.62	-88.83	4	MADISON
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/02	10/06	10/11	10/18	10/30		04/01 04/09 04/15 04/23 05/04 179
32F	10/11	10/21	10/25	11/04	11/13		03/23 03/31 04/08 04/10 04/18 200
28F	10/25	10/31	11/09	11/14	12/01		03/10 03/19 03/25 03/28 04/10 229
26F	10/28	11/09	11/13	11/17	12/04		02/26 03/09 03/16 03/24 04/04 242
KINGSPORT	TN	4858	1280	36.52	-82.53	1	SULLIVAN
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/03	10/06	10/09	10/17	10/23		04/13 04/28 05/04 05/09 05/19 158
32F	10/09	10/18	10/21	10/27	11/06		04/04 04/10 04/17 04/22 04/30 187
28F	10/17	10/28	11/05	11/13	11/18		03/17 03/22 04/01 04/09 04/17 218
26F	10/25	11/05	11/14	11/16	11/30		03/12 03/18 03/23 04/01 04/10 236
KNOXVILLE WSO AIRPORT	TN	4950	880	35.82	-83.98	1	BLOUNT
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/03	10/10	10/17	10/25	11/04		04/07 04/10 04/17 04/26 05/04 183
32F	10/24	10/27	11/04	11/08	11/15		03/22 03/26 04/03 04/12 04/21 215
28F	10/28	11/08	11/13	11/17	11/30		03/03 03/17 03/23 04/01 04/13 235
26F	10/31	11/09	11/16	11/25	11/30		02/20 03/04 03/17 03/24 04/13 244
LAFAYETTE	TN	4987	980	36.52	-86.03	3	MACON
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	09/27	10/03	10/05	10/16	10/24		04/06 04/16 04/24 05/02 05/10 164
32F	10/06	10/17	10/21	10/29	11/06		03/27 04/06 04/11 04/16 04/29 193
28F	10/18	10/24	10/31	11/08	11/23		03/15 03/22 04/05 04/10 04/20 209
26F	10/25	11/05	11/11	11/15	11/27		03/11 03/18 03/22 04/01 04/12 234
LEWISBURG EXP STN	TN	5187	790	35.45	-86.80	3	MARSHALL
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	09/24	10/03	10/04	10/09	10/22		04/10 04/22 05/01 05/06 05/10 156
32F	10/05	10/11	10/17	10/20	11/04		03/27 04/09 04/17 04/26 05/05 183
28F	10/11	10/24	10/27	11/06	11/14		03/23 03/27 04/06 04/13 04/22 204
26F	10/21	10/27	11/06	11/13	11/20		03/18 03/25 03/31 04/09 04/16 220

Frost / Freeze Analysis in the Southern Climate Region

Tennessee

STATION		ST	ID	ELEV	LAT	LON	CD	County				
LEXINGTON		TN	5210	540	35.67	-88.42	4	HENDERSON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/03	10/10	10/15	10/20	11/04		03/26	04/10	04/21	04/26	05/04	177
32F	10/15	10/25	10/31	11/04	11/16		03/25	03/31	04/09	04/11	04/25	205
28F	10/29	11/05	11/13	11/14	12/01		03/19	03/22	03/26	03/31	04/10	232
26F	11/04	11/13	11/15	11/21	12/07		02/28	03/19	03/25	03/26	04/04	235
MARTIN UNIV OF TENN BRA TN 5681 340 36.33 -88.87 4 WEAKLEY												
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/02	10/05	10/11	10/16	10/29		03/26	04/10	04/15	04/21	05/04	179
32F	10/13	10/19	10/21	10/28	11/06		03/23	04/02	04/09	04/13	04/21	195
28F	10/23	11/04	11/11	11/15	11/22		03/08	03/19	03/26	04/05	04/13	230
26F	10/27	11/07	11/14	11/20	12/02		02/28	03/16	03/22	03/28	04/08	237
MC MINNVILLE TN 5882 940 35.68 -85.80 2 WARREN												
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/03	10/04	10/08	10/15	10/19		04/10	04/18	04/29	05/03	05/12	162
32F	10/04	10/14	10/21	10/26	11/08		03/26	04/06	04/12	04/18	04/29	192
28F	10/21	10/26	11/04	11/10	12/01		03/19	03/24	03/31	04/08	04/12	218
26F	10/26	11/03	11/12	11/16	12/01		03/17	03/22	03/26	04/01	04/12	231
MEMPHIS WSCMO AP TN 5954 270 35.05 -90.00 4 SHELBY												
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	10/26	11/02	11/06	11/14		03/18	03/22	04/01	04/08	04/12	215
32F	11/02	11/06	11/11	11/15	11/21		03/03	03/18	03/25	04/02	04/11	231
28F	11/08	11/14	11/22	12/01	12/08		02/10	02/27	03/07	03/16	03/25	260
26F	11/09	11/19	12/03	12/11	12/17		02/08	02/16	02/27	03/14	03/24	279
MILAN 1 N TN 6012 490 35.93 -88.77 4 GIBSON												
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/01	10/04	10/09	10/15	10/20		04/05	04/12	04/18	04/26	05/09	174
32F	10/04	10/13	10/22	10/26	11/04		03/24	03/28	04/08	04/11	04/17	197
28F	10/22	10/28	11/06	11/14	11/28		03/17	03/24	04/01	04/08	04/12	219
26F	10/27	11/05	11/12	11/16	12/02		03/10	03/17	03/25	03/31	04/12	232
MONTEAGLE TN 6162 1930 35.25 -85.83 2 GRUNDY												
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/04	10/12	10/18	10/23	11/02		03/28	04/11	04/21	04/29	05/11	180
32F	10/15	10/24	10/26	11/04	11/08		03/26	04/05	04/09	04/16	05/01	200
28F	10/25	11/05	11/12	11/17	11/29		03/11	03/19	04/01	04/08	04/16	225
26F	11/02	11/09	11/14	11/18	11/30		02/28	03/21	03/27	04/04	04/12	232

Frost / Freeze Analysis in the Southern Climate Region

Tennessee

STATION	ST	ID	ELEV	LAT	LON	CD	County
MOSCOW	TN	6274	340	35.07	-89.40	4	FAYETTE
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	09/30	10/06	10/12	10/18	10/24		03/26 04/09 04/13 04/15 04/23 182
32F	10/05	10/20	10/27	11/01	11/09		03/19 03/28 04/07 04/10 04/18 203
28F	10/13	10/30	11/10	11/14	11/29		02/28 03/11 03/22 03/27 04/08 233
26F	10/20	11/04	11/13	11/18	12/06		02/16 03/02 03/09 03/22 04/06 249
MURFREESBORO	5 N		TN	6371	550	35.92	-86.37 3 RUTHERFORD
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/03	10/06	10/10	10/16	10/20		04/07 04/15 04/25 05/01 05/06 168
32F	10/06	10/14	10/21	10/27	11/05		03/24 04/07 04/11 04/15 04/24 193
28F	10/22	10/27	11/05	11/11	11/19		03/18 03/24 03/31 04/09 04/13 219
26F	10/25	11/04	11/11	11/16	11/30		03/15 03/19 03/25 03/30 04/12 231
NASHVILLE WSO	AIRPORT		TN	6402	590	36.12	-86.68 3 DAVIDSON
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/04	10/12	10/18	10/22	11/05		04/01 04/07 04/15 04/21 05/04 186
32F	10/08	10/20	10/27	11/04	11/14		03/24 04/02 04/09 04/12 04/22 201
28F	10/27	11/05	11/13	11/17	11/30		03/12 03/23 03/26 04/04 04/12 232
26F	11/04	11/10	11/15	11/21	12/02		02/28 03/13 03/19 03/24 04/12 241
NEWBERN			TN	6471	370	36.12	-89.27 4 DYER
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	09/30	10/04	10/07	10/15	10/28		04/03 04/11 04/17 04/26 05/10 173
32F	10/05	10/15	10/23	11/03	11/06		03/21 03/28 04/04 04/10 04/14 202
28F	10/21	10/28	11/05	11/11	11/22		03/15 03/21 03/28 04/07 04/12 222
26F	10/24	11/03	11/11	11/16	12/02		03/14 03/18 03/22 03/30 04/12 234
NEWPORT	1 NW		TN	6534	1040	35.98	-83.20 1 COCKE
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/02	10/05	10/08	10/15	10/20		04/18 04/28 05/03 05/07 05/19 158
32F	10/05	10/15	10/20	10/27	11/04		04/08 04/15 04/19 04/26 05/05 184
28F	10/14	10/27	11/02	11/06	11/16		03/18 03/26 04/04 04/10 04/21 212
26F	10/22	10/29	11/06	11/14	11/28		03/03 03/16 03/19 03/26 04/11 232
OAK RIDGE ATDL			TN	6750	900	36.02	-84.23 1 ANDERSON
FALL						SPRING	
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/02	10/06	10/13	10/17	10/26		04/10 04/21 04/26 05/04 05/19 170
32F	10/13	10/19	10/26	10/31	11/07		03/29 04/09 04/11 04/21 04/30 198
28F	10/21	10/28	11/06	11/12	11/19		03/18 03/23 04/01 04/11 04/21 219
26F	10/27	11/05	11/13	11/17	11/27		03/15 03/19 03/26 04/01 04/13 232

Frost / Freeze Analysis in the Southern Climate Region

Tennessee

STATION		ST	ID	ELEV	LAT	LONG	CD	County				
PARIS 2 NW		TN	6977	580	36.33	-88.35	4	HENRY				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/29	10/05	10/11	10/17	10/22		04/07	04/15	04/20	04/30	05/06	174
32F	10/13	10/15	10/24	10/30	11/13		03/27	04/05	04/11	04/15	04/27	196
28F	10/25	10/31	11/06	11/13	11/20		03/18	03/25	03/31	04/10	04/16	220
26F	10/27	11/05	11/13	11/16	12/04		03/08	03/18	03/25	04/01	04/13	233
ROGERSVILLE 1 NE		TN	7884	1360	36.42	-82.98	1	HAWKINS				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/30	10/03	10/06	10/08	10/18		04/16	04/29	05/04	05/10	05/20	155
32F	10/03	10/06	10/13	10/18	10/31		04/08	04/13	04/21	04/30	05/10	175
28F	10/14	10/20	10/27	11/05	11/10		03/19	04/02	04/10	04/16	04/27	200
26F	10/14	10/25	11/05	11/12	11/24		03/17	03/24	04/03	04/10	04/21	216
SAMBURG WILDLIFE REF		TN	8065	310	36.45	-89.32	4	OBION				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/03	10/06	10/14	10/18	10/26		03/26	04/08	04/11	04/23	05/02	186
32F	10/11	10/20	10/26	10/30	11/06		03/23	03/28	04/08	04/10	04/17	201
28F	10/25	11/03	11/09	11/15	12/02		03/08	03/22	03/26	04/01	04/12	228
26F	11/04	11/11	11/15	11/22	12/06		02/28	03/13	03/18	03/25	04/03	242
SAVANNAH 6 SW		TN	8108	420	35.15	-88.32	3	HARDIN				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/03	10/06	10/16	10/22	11/04		04/05	04/13	04/22	04/28	05/04	177
32F	10/11	10/20	10/26	11/04	11/08		03/23	04/05	04/09	04/14	04/22	200
28F	10/23	11/04	11/10	11/13	11/22		03/17	03/23	03/28	04/04	04/12	227
26F	11/01	11/09	11/14	11/20	12/02		03/02	03/15	03/22	03/26	04/12	237
SPRINGFIELD EXP STN		TN	8562	750	36.47	-86.83	3	ROBERTSON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/24	10/03	10/05	10/12	10/21		04/09	04/17	04/30	05/06	05/12	158
32F	10/06	10/14	10/19	10/24	11/05		03/28	04/07	04/11	04/16	04/27	191
28F	10/21	10/26	11/04	11/07	11/16		03/18	03/24	04/02	04/10	04/16	216
26F	10/28	11/07	11/14	11/19	11/29		03/12	03/20	03/27	04/04	04/13	232
TULLAHOMA		TN	9155	1050	35.35	-86.20	2	COFFEE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/02	10/05	10/11	10/18	10/27		03/31	04/15	04/25	05/01	05/06	169
32F	10/07	10/15	10/20	10/27	11/06		03/26	04/02	04/10	04/14	04/23	193
28F	10/23	10/28	11/06	11/13	11/20		03/18	03/23	03/27	04/04	04/13	224
26F	10/29	11/06	11/13	11/18	11/29		03/03	03/17	03/23	03/28	04/12	235

Frost / Freeze Analysis in the Southern Climate Region

Tennessee

STATION	ST	ID	ELEV	LAT	LON	CD	County					
UNION CITY	TN	9219	350	36.40	-89.05	4	OBION					
FALL												
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/01	10/04	10/07	10/17	10/19		04/01	04/09	04/15	04/23	05/04	175
32F	10/05	10/15	10/21	10/28	11/05		03/20	03/28	04/07	04/10	04/15	197
28F	10/26	10/30	11/07	11/13	11/22		03/10	03/22	03/26	03/31	04/13	226
26F	11/01	11/10	11/15	11/21	12/04		02/28	03/12	03/18	03/24	03/30	242

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION		ST	ID	ELEV	LAT	LONG	CD	County				
ABILENE WB AIRPORT		TX	0016	1780	32.42	-99.68	2	TAYLOR				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/16	10/28	11/05	11/12	11/19		03/18	03/28	04/05	04/07	04/12	214
32F	10/28	11/09	11/11	11/20	11/28		03/06	03/17	03/24	03/30	04/06	232
28F	11/11	11/16	11/23	12/03	12/14		02/16	03/07	03/09	03/23	03/31	259
26F	11/12	11/26	12/04	12/11	12/23		02/12	03/02	03/08	03/21	03/30	271
ALBANY								TX 0120 1420 32.73 -99.28 3 SHACKELFORD				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/10	10/18	10/29	11/04	11/16		03/17	03/29	04/05	04/08	04/19	207
32F	10/20	11/03	11/08	11/14	11/20		02/28	03/17	03/25	04/01	04/06	228
28F	11/02	11/11	11/20	11/29	12/09		02/22	03/06	03/15	03/23	04/03	250
26F	11/03	11/13	11/30	12/11	12/20		02/21	03/03	03/09	03/17	03/29	266
AMARILLO WB AIRPORT								TX 0211 3600 35.23 -101.70 1 POTTER				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/28	10/12	10/17	10/21	10/31		04/09	04/19	04/29	05/04	05/13	171
32F	10/07	10/18	10/24	11/02	11/10		03/30	04/06	04/14	04/20	05/01	193
28F	10/13	10/31	11/05	11/12	11/20		03/18	03/27	04/02	04/07	04/15	217
26F	10/22	11/05	11/10	11/18	11/27		03/10	03/25	04/01	04/04	04/11	223
AUSTIN WSO AP								TX 0428 590 30.28 -97.70 7 TRAVIS				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/05	11/14	11/19	11/27	12/06		02/16	03/07	03/10	03/23	04/02	254
32F	11/13	11/23	12/05	12/12	12/20		02/07	02/12	02/24	03/06	03/22	284
28F	11/30	12/10	12/14	12/23	01/15		01/17	02/06	02/12	02/23	03/05	305
26F	12/09	12/14	12/21	01/02	01/12		01/05	02/02	02/07	02/12	03/03	317
BALLINGER 5 WSW								TX 0493 1640 31.73 -100.05 2 RUNNELS				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/09	10/20	10/31	11/05	11/11		03/24	04/01	04/06	04/11	04/30	208
32F	10/20	11/04	11/10	11/15	11/20		03/08	03/23	03/29	04/06	04/12	226
28F	10/31	11/11	11/16	11/27	12/04		03/01	03/14	03/23	03/27	04/07	238
26F	11/04	11/12	11/23	11/29	12/09		02/15	03/06	03/14	03/21	04/03	254
BARDWELL DAM								TX 0518 460 32.27 -96.63 3 ELLIS				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	11/04	11/11	11/15	11/28		03/08	03/20	03/26	04/04	04/13	230
32F	11/02	11/13	11/17	11/23	12/07		02/15	03/06	03/12	03/24	04/07	250
28F	11/12	11/17	11/30	12/07	12/31		02/04	02/13	02/26	03/05	03/19	277
26F	11/15	11/28	12/06	12/15	12/31		02/04	02/11	02/19	03/04	03/15	290

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION		ST	ID	ELEV	LAT	LON	CD	County				
BEEVILLE 5 NE		TX	0639	250	28.45	-97.70	7	BEE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/05	11/14	11/23	12/02	12/12		02/13	03/07	03/15	03/21	04/09	253
32F	11/15	11/26	12/07	12/13	12/22		01/29	02/11	02/23	03/04	03/16	287
28F	11/24	12/11	12/19	12/24	01/23		01/09	02/04	02/11	02/18	03/05	311
26F	12/10	12/21	01/01	01/10	02/04		12/24	01/15	02/03	02/12	03/03	332
BELTON DAM		TX	0665	660	31.10	-97.48	3	BELL				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/23	11/09	11/13	11/17	12/02		03/05	03/10	03/22	03/28	04/12	236
32F	11/10	11/13	11/16	11/24	12/12		02/22	03/06	03/11	03/23	04/02	250
28F	11/14	11/26	12/04	12/12	12/25		02/05	02/11	02/23	03/04	03/14	284
26F	11/28	12/06	12/12	12/19	01/06		01/25	02/08	02/12	02/23	03/06	303
BENBROOK DAM		TX	0691	790	32.65	-97.45	3	TARRANT				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/22	11/04	11/09	11/15	11/20		03/16	03/23	03/28	04/05	04/13	226
32F	11/01	11/12	11/16	11/26	12/12		02/23	03/06	03/20	03/26	04/04	241
28F	11/13	11/23	12/06	12/12	12/28		02/08	02/17	03/04	03/13	03/27	277
26F	11/15	12/01	12/11	12/19	01/01		02/07	02/13	02/26	03/06	03/17	288
BIG SPRING		TX	0786	2500	32.25	-101.45	1	HOWARD				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/19	11/01	11/04	11/10	11/19		03/16	03/31	04/04	04/06	04/15	214
32F	11/03	11/10	11/13	11/19	11/28		02/28	03/15	03/22	03/27	04/09	236
28F	11/11	11/19	11/27	12/04	12/12		02/21	03/06	03/14	03/24	04/01	258
26F	11/13	11/22	12/01	12/06	12/17		02/04	02/23	03/06	03/16	03/31	270
BOERNE		TX	0902	1420	29.80	-98.72	6	KENDALL				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/13	10/22	10/31	11/04	11/12		03/08	03/28	04/04	04/08	04/16	210
32F	10/29	11/05	11/11	11/16	11/30		03/05	03/13	03/24	04/04	04/13	232
28F	11/05	11/15	11/25	11/30	12/13		02/13	02/27	03/07	03/16	04/04	263
26F	11/13	11/19	12/01	12/09	12/23		02/06	02/15	02/27	03/08	03/22	277
BRACKETTVILLE		TX	1007	1120	29.32	-100.42	5	KINNEY				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	11/04	11/13	11/20	12/02		02/24	03/06	03/23	03/29	04/11	235
32F	11/02	11/11	11/19	11/25	12/03		04/03	03/01	03/06	03/20	03/31	258
28F	11/18	12/02	12/12	12/21	01/11		01/17	02/04	02/13	02/28	03/08	302
26F	11/21	12/08	12/13	12/22	01/11		01/05	01/31	02/10	02/21	03/04	306

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION	ST	ID	ELEV	LAT	LON	CD	County
BRENHAM	TX	1048	310	30.17	-96.40	7	WASHINGTON
FALL							
T	10%	30%	50%	70%	90%		
36F	11/04	11/14	11/21	11/28	12/09	02/14	70%
32F	11/15	11/27	12/05	12/09	12/17	02/07	03/06
28F	11/30	12/11	12/15	12/20	01/07	01/28	02/07
26F	11/30	12/13	12/19	01/05	01/13	12/26	02/08
SPRING							
						01/30	50%
						02/08	30%
						02/13	10%
						03/05	FFD
BRIDGEPORT							
	TX	1063	750	33.22	-97.77	3	WISE
FALL							
T	10%	30%	50%	70%	90%		
36F	10/06	10/17	10/27	11/04	11/12	03/21	70%
32F	10/22	11/04	11/08	11/15	11/20	03/06	03/29
28F	11/03	11/13	11/18	11/26	12/11	02/22	04/05
26F	11/04	11/17	11/24	12/04	12/18	02/13	03/28
SPRING							
						03/01	30%
						03/06	10%
						03/19	FFD
						04/04	205
BROWNWOOD							
	TX	1138	1380	31.72	-99.00	3	BROWN
FALL							
T	10%	30%	50%	70%	90%		
36F	10/20	10/27	11/04	11/11	11/18	03/09	70%
32F	11/02	11/09	11/11	11/17	11/29	03/07	04/02
28F	11/07	11/14	11/22	12/02	12/12	02/13	03/24
26F	11/07	11/16	11/28	12/03	12/15	02/08	03/31
SPRING							
						02/17	30%
						02/28	10%
						03/09	FFD
						03/22	216
BURNET							
	TX	1250	1270	30.73	-98.23	6	BURNET
FALL							
T	10%	30%	50%	70%	90%		
36F	10/15	10/24	10/31	11/04	11/14	03/21	70%
32F	10/25	11/04	11/11	11/13	11/29	03/05	04/01
28F	11/07	11/14	11/26	12/02	12/10	02/11	03/25
26F	11/14	11/23	11/30	12/10	12/21	02/09	04/03
SPRING							
						02/21	30%
						03/04	10%
						03/09	FFD
						03/21	232
CAMERON							
	TX	1348	390	30.85	-96.98	3	MILAM
FALL							
T	10%	30%	50%	70%	90%		
36F	10/23	11/04	11/10	11/14	11/25	03/06	70%
32F	11/04	11/13	11/22	11/30	12/06	02/12	03/24
28F	11/14	11/29	12/07	12/12	12/22	02/04	03/08
26F	11/26	12/07	12/12	12/18	12/30	01/23	03/18
SPRING							
						02/07	30%
						02/12	10%
						02/25	FFD
						03/07	261
CARTHAGE							
	TX	1500	340	32.15	-94.37	4	PANOLA
FALL							
T	10%	30%	50%	70%	90%		
36F	10/10	10/24	11/03	11/11	11/13	03/17	70%
32F	10/25	11/09	11/14	11/21	12/04	03/03	04/03
28F	11/11	11/20	11/24	12/01	12/10	02/08	04/08
26F	11/15	11/23	12/04	12/08	12/15	02/07	04/13
SPRING							
						02/16	30%
						03/02	10%
						03/06	FFD
						03/15	214
						03/26	238
						04/07	288
						03/22	267
						03/15	277

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION		ST	ID	ELEV	LAT	LON	CD	County				
CENTER		TX	1578	330	31.80	-94.17	4	SHELBY				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/10	10/16	10/25	11/03	11/13		03/18	03/24	04/05	04/08	04/14	203
32F	10/20	11/03	11/11	11/16	11/29		03/07	03/17	03/23	03/27	04/07	233
28F	11/04	11/15	11/22	11/30	12/08		02/15	03/02	03/08	03/14	03/23	259
26F	11/12	11/18	12/01	12/08	12/28		01/24	02/11	02/24	03/04	03/13	280
CENTERVILLE		TX	1596	320	31.27	-95.97	4	LEON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/14	10/25	11/03	11/09	11/15		03/09	03/23	03/28	04/05	04/12	220
32F	10/30	11/05	11/13	11/21	11/30		02/22	03/08	03/19	03/28	04/10	239
28F	11/05	11/15	11/29	12/04	12/12		02/05	02/18	03/04	03/15	04/03	270
26F	11/14	11/30	12/07	12/16	12/29		01/24	02/09	02/22	03/05	03/22	288
CHILDRESS FCWOS AP		TX	1698	1950	34.43	-100.28	2	CHILDRESS				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/05	10/16	10/28	11/07	11/13		03/24	04/02	04/07	04/12	04/24	204
32F	11/02	11/08	11/20	11/27	12/03		02/23	03/07	03/21	03/31	04/09	244
28F	11/04	11/11	11/20	11/25	12/03		02/27	03/10	03/20	03/25	04/05	245
26F	11/08	11/19	11/23	12/03	12/09		02/16	03/07	03/14	03/23	03/31	254
CHISOS BASIN		TX	1715	5300	29.27	-103.30	5	BREWSTER				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/09	10/30	11/07	11/15	11/20		03/07	03/21	03/27	04/07	04/14	225
32F	11/02	11/08	11/20	11/27	12/03		02/23	03/07	03/21	03/23	04/09	244
28F	11/04	11/17	11/30	12/10	12/22		02/04	02/24	03/15	03/22	04/06	260
26F	11/15	11/24	12/08	12/15	12/30		01/11	02/11	02/26	03/18	03/31	285
CLARENDON		TX	1761	2700	34.93	-100.88	2	DONLEY				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/27	10/07	10/12	10/20	10/30		04/07	04/15	04/24	05/01	05/11	171
32F	10/09	10/18	10/28	11/03	11/10		03/27	04/05	04/06	04/12	04/21	205
28F	10/22	11/03	11/09	11/12	11/23		03/18	03/26	04/03	04/06	04/12	220
26F	10/29	11/06	11/11	11/16	11/23		03/15	03/19	03/25	04/02	04/08	231
CLARKSVILLE		TX	1772	440	33.63	-95.03	3	RED RIVER				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/11	10/21	10/29	11/04	11/12		03/15	03/30	04/05	04/08	04/16	207
32F	10/23	11/04	11/10	11/14	11/21		03/06	03/22	03/26	03/31	04/12	229
28F	11/01	11/14	11/21	11/29	12/10		02/24	03/06	03/11	03/21	03/30	255
26F	11/09	11/18	11/25	12/05	12/24		02/12	02/24	03/04	03/11	03/23	266

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION		ST	ID	ELEV	LAT	LON	CD	County				
CLEBURNE		TX	1800	780	32.33	-97.40	3	JOHNSON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	10/27	11/04	11/10	11/15		03/21	03/28	04/04	04/07	04/15	214
32F	11/01	11/05	11/13	11/17	12/01		03/01	03/08	03/23	03/28	04/11	235
28F	11/04	11/14	11/22	12/01	12/15		02/10	02/23	03/07	03/16	03/27	260
26F	11/21	11/29	12/06	12/12	12/21		02/08	02/13	02/27	03/06	03/14	282
CONROE		TX	1956	250	30.33	-95.48	4	MONTGOMERY				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	11/07	11/14	11/23	11/30		03/03	03/08	03/21	03/24	04/08	238
32F	11/09	11/22	11/27	11/30	12/13		02/10	02/21	03/07	03/11	03/22	265
28F	11/14	11/30	12/11	12/19	01/08		01/06	02/09	02/15	03/05	03/14	299
26F	11/16	12/11	12/18	12/23	01/23		12/29	02/05	02/10	02/14	03/07	311
CORPUS	CHRISTI	WSO	AP	TX	2015	40	27.77	-97.50	7	NUECES		
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/16	11/28	12/02	12/12	12/18		02/09	02/14	03/04	03/09	03/27	273
32F	12/04	12/12	12/20	01/05	01/25		01/22	02/07	02/12	02/24	03/14	311
28F	11/14	11/24	12/06	12/16	12/26		02/04	02/13	02/23	03/04	03/14	286
26F	12/17	12/29	01/10	01/13	02/09		12/21	12/25	01/12	01/19	02/02	363
CORSICANA		TX	2019	420	32.08	-96.47	3	NAVARRO				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/23	11/04	11/11	11/15	11/22		03/07	03/19	03/24	04/02	04/12	232
32F	11/07	11/15	11/22	12/02	12/10		02/23	03/06	03/13	03/23	04/03	254
28F	11/14	11/24	12/06	12/16	12/26		02/04	02/13	02/23	03/04	03/14	286
26F	11/19	12/04	12/09	12/19	01/03		01/23	02/08	02/13	03/01	03/09	299
DALHART	FAA	AIRPORT	TX	2240	3990	36.02	-102.55	1	DALLAM			
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/24	10/09	10/14	10/17	10/21		04/22	04/30	05/04	05/10	05/18	163
32F	10/07	10/12	10/18	10/24	11/01		04/06	04/19	04/27	05/01	05/11	174
28F	10/10	10/19	10/29	11/03	11/13		03/20	04/01	04/06	04/12	04/27	206
26F	10/17	10/30	11/07	11/11	11/19		03/19	03/31	04/05	04/08	04/15	216
DALLAS	FAA	AP	TX	2244	440	32.85	-96.85	3	DALLAS			
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/02	11/09	11/13	11/17	11/26		03/07	03/20	03/25	03/28	04/06	233
32F	11/11	11/19	11/28	12/06	12/15		02/19	03/05	03/07	03/17	03/27	266
28F	11/23	11/30	12/09	12/18	01/03		01/31	02/11	02/22	03/04	03/14	290
26F	11/24	12/04	12/12	12/19	01/03		01/23	02/07	02/12	02/25	03/08	303

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION		ST	ID	ELEV	LAT	LON	CD	County				
DEL RIO WSO AP		TX	2360	1030	29.37	-100.92	6	VAL VERDE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/30	11/05	11/13	11/25	12/03		02/12	03/02	03/07	03/19	04/03	251
32F	11/11	11/23	11/29	12/04	12/20		01/29	02/12	02/26	03/04	03/21	276
28F	11/23	12/13	12/21	12/30	01/22		01/10	01/19	02/09	02/12	03/03	315
26F	11/29	12/16	12/22	01/05	01/22		01/07	01/17	02/03	02/07	02/22	322
DENISON DAM		TX	2394	610	33.82	-96.57	3	GRAYSON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/21	10/31	11/08	11/14	11/23		03/19	03/25	03/31	04/07	04/15	222
32F	11/03	11/10	11/15	11/21	11/30		03/02	03/10	03/17	03/25	04/06	243
28F	11/09	11/18	11/24	12/07	12/23		02/08	02/21	03/06	03/12	03/27	263
26F	11/13	11/24	12/05	12/12	12/28		01/26	02/13	02/27	03/08	03/26	281
DENTON	2	SE	TX	2404	630	33.20	-97.10	3	DENTON			
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	11/03	11/08	11/14	11/21		03/09	03/21	03/28	04/04	04/11	225
32F	11/03	11/10	11/13	11/19	12/07		03/06	03/10	03/21	03/24	04/07	237
28F	11/13	11/23	12/03	12/11	12/21		02/12	03/02	03/06	03/11	03/27	272
26F	11/13	11/30	12/11	12/17	12/30		02/07	02/16	03/03	03/06	03/16	283
DUBLIN		TX	2598	1500	32.10	-98.33	2	ERATH				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/17	10/29	11/05	11/14	11/20		03/17	03/28	04/04	04/06	04/13	215
32F	11/02	11/10	11/15	11/22	12/03		03/03	03/08	03/20	03/27	04/05	240
28F	11/10	11/20	11/28	12/04	12/20		02/13	03/01	03/09	03/19	03/31	264
26F	11/13	11/26	12/10	12/17	01/01		02/04	02/13	03/04	03/14	03/27	281
DUMAS		TX	2617	3650	35.87	-101.97	1	MOORE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/28	10/11	10/17	10/22	10/31		04/16	04/24	04/30	05/05	05/16	170
32F	10/08	10/15	10/24	10/30	11/07		04/05	04/13	04/18	04/30	05/05	189
28F	10/14	10/28	11/06	11/11	11/19		03/20	03/31	04/05	04/07	04/15	215
26F	10/19	11/03	11/10	11/12	11/20		03/12	03/25	03/31	04/04	04/12	224
EAGLE PASS		TX	2679	810	28.70	-100.48	9	MAVERICK				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/01	11/11	11/23	11/29	12/05		02/05	02/23	03/04	03/09	03/23	264
32F	11/14	11/28	12/03	12/12	01/03		01/28	02/12	02/22	03/06	03/18	284
28F	11/29	12/14	12/22	01/04	01/19		01/05	01/24	02/08	02/11	03/02	317
26F	11/29	12/18	12/28	01/12	02/11		01/09	01/17	01/31	02/09	02/15	331

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION		ST	ID	ELEV	LAT	LONG	CD	County				
EASTLAND		TX	2715	1460	32.40	-98.85	3	EASTLAND				
FALL												
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/12	10/20	10/28	11/04	11/14		03/26	04/04	04/06	04/11	04/24	205
32F	10/20	11/04	11/10	11/15	11/26		03/09	03/26	04/02	04/05	04/15	222
28F	11/02	11/11	11/20	11/25	12/06		02/23	03/07	03/16	03/25	04/12	249
26F	11/03	11/13	11/27	12/03	12/12		02/13	03/04	03/10	03/22	03/31	262
EL PASO WSO AP		TX	2797	3920	31.80	-106.40	5	EL PASO				
SPRING												
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/19	10/26	11/02	11/05	11/15		03/22	04/02	04/11	04/18	05/02	205
32F	10/29	11/02	11/10	11/13	11/24		03/05	03/16	03/22	04/02	04/09	233
28F	10/31	11/14	11/20	11/26	12/06		02/21	03/05	03/11	03/21	04/08	254
26F	11/13	11/20	11/24	12/04	12/14		02/12	02/25	03/07	03/14	03/31	262
ENCINAL		TX	2906	590	28.03	-99.42	9	WEBB				
FALL												
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/02	11/13	11/15	11/28	12/10		02/14	03/07	03/09	03/23	04/03	251
32F	11/08	11/15	12/02	12/13	01/02		02/05	02/16	02/27	03/07	03/29	278
28F	11/24	12/08	12/15	12/23	01/13		01/20	02/09	02/12	02/23	03/04	306
26F	11/24	12/14	12/22	12/28	01/17		01/15	01/21	02/06	02/13	03/03	319
FLORESVILLE		TX	3201	400	29.13	-98.17	7	WILSON				
SPRING												
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	10/29	11/09	11/15	11/30		03/03	03/17	03/23	04/06	04/15	231
32F	11/02	11/12	11/15	11/29	12/05		02/10	03/05	03/09	03/22	04/11	251
28F	11/14	11/28	12/06	12/13	12/23		01/24	02/09	02/21	03/04	03/20	288
26F	11/15	12/01	12/15	12/23	01/22		01/12	02/07	02/11	02/23	03/07	307
FOLLETT		TX	3225	2770	36.43	-100.13	1	LIPSCOMB				
FALL												
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	09/28	10/12	10/18	10/24	11/01		04/07	04/16	04/29	05/02	05/11	172
32F	10/12	10/19	10/27	11/03	11/09		04/01	04/07	04/14	04/19	05/03	196
28F	10/22	11/02	11/06	11/12	11/22		03/19	03/28	04/03	04/06	04/12	217
26F	10/31	11/09	11/14	11/20	11/27		03/17	03/26	03/31	04/05	04/11	228
FORT STOCKTON		TX	3280	2980	30.88	-102.87	5	PECOS				
SPRING												
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/11	10/23	11/02	11/09	11/18		03/21	04/01	04/07	04/14	04/24	209
32F	10/29	11/03	11/10	11/20	11/28		03/07	03/21	03/28	04/05	04/13	227
28F	11/02	11/10	11/17	11/26	12/03		02/15	03/07	03/21	03/25	04/07	241
26F	11/02	11/13	11/20	12/01	12/07		02/15	03/02	03/10	03/18	03/31	255

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION		ST	ID	ELEV	LAT	LON	CD	County				
FREDERICKSBURG		TX	3329	1750	30.27	-98.87	5	GILLESPIE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/15	10/25	11/04	11/10	11/18		03/08	03/24	04/01	04/06	04/14	217
32F	10/30	11/10	11/13	11/17	12/01		03/04	03/09	03/24	04/02	04/10	234
28F	11/05	11/14	11/23	12/03	12/10		02/12	02/23	03/06	03/11	04/03	262
26F	11/14	11/28	12/06	12/12	12/22		02/07	02/12	02/23	03/06	03/18	286
GATESVILLE 2 ESE		TX	3485	850	31.43	-97.77	3	CORYELL				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/18	10/26	11/04	11/11	11/20		03/06	03/25	04/02	04/07	04/15	216
32F	10/30	11/10	11/13	11/17	11/30		03/03	03/11	03/21	04/02	04/13	237
28F	11/07	11/15	11/20	12/02	12/12		02/12	02/24	03/06	03/11	04/04	259
26F	11/08	11/23	11/30	12/12	12/21		02/05	02/12	02/22	03/04	03/15	281
GILMER 2 W		TX	3546	390	32.73	-94.98	3	UPSHUR				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/03	10/16	10/24	11/02	11/13		03/23	04/03	04/06	04/09	04/16	201
32F	10/16	10/27	11/10	11/14	11/25		03/07	03/23	03/27	04/04	04/13	228
28F	10/30	11/13	11/16	11/24	12/10		02/23	03/07	03/17	03/22	04/04	244
26F	11/12	11/17	11/29	12/07	12/16		02/13	02/26	03/06	03/10	03/22	268
GOLDTHWAITE		TX	3614	1500	31.45	-98.58	3	MILLS				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	11/04	11/10	11/15	11/25		03/08	03/21	03/27	04/05	04/12	228
32F	10/30	11/07	11/14	11/25	12/12		03/05	03/07	03/21	03/26	04/09	238
28F	11/04	11/19	12/01	12/09	12/21		02/12	02/22	03/06	03/15	03/27	270
26F	11/14	11/28	12/07	12/12	12/27		02/03	02/12	02/24	03/03	03/19	286
GREENVILLE 7 NW		TX	3734	610	33.20	-96.22	3	HUNT				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/17	10/24	10/29	11/04	11/13		03/23	03/31	04/05	04/08	04/16	207
32F	10/25	11/09	11/11	11/16	11/29		03/06	03/20	03/25	04/02	04/10	231
28F	11/03	11/14	11/22	12/01	12/09		02/20	03/07	03/19	03/23	04/03	248
26F	11/13	11/22	12/03	12/08	12/16		02/12	02/26	03/05	03/11	03/26	273
HENDERSON		TX	4081	420	32.17	-94.80	4	RUSK				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/18	10/25	11/05	11/10	11/14		03/19	03/25	04/03	04/07	04/13	216
32F	10/25	11/09	11/13	11/17	11/25		03/04	03/14	03/22	03/27	04/08	236
28F	11/08	11/16	11/22	12/05	12/23		02/08	02/20	03/05	03/13	03/23	262
26F	11/14	11/29	12/05	12/12	12/27		02/07	02/12	02/26	03/06	03/16	282

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION		ST	ID	ELEV	LAT	LONG	CD	County				
HENRIETTA		TX	4093	900	33.82	-98.20	2	CLAY				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/13	10/19	10/26	11/04	11/14		03/22	04/01	04/05	04/09	04/20	204
32F	10/22	11/04	11/10	11/15	11/20		03/10	03/23	03/28	04/05	04/13	227
28F	11/06	11/12	11/20	11/24	12/09		02/17	03/06	03/09	03/26	04/04	256
26F	11/12	11/21	11/29	12/04	12/14		02/17	03/02	03/07	03/21	03/31	267
HICO		TX	4137	1020	31.98	-98.03	3	HAMILTON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/18	10/24	11/02	11/06	11/13		03/20	03/27	04/05	04/10	04/19	211
32F	10/25	11/04	11/10	11/15	11/20		03/06	03/18	03/26	04/04	04/14	229
28F	11/03	11/13	11/21	11/29	12/11		02/12	03/06	03/12	03/24	04/11	254
26F	11/04	11/15	11/23	12/03	12/15		02/10	02/22	03/06	03/11	03/23	262
HILLSBORO		TX	4182	550	32.02	-97.12	3	HILL				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	10/31	11/06	11/12	11/23		03/11	03/26	04/05	04/07	04/14	215
32F	11/02	11/09	11/13	11/21	12/05		02/28	03/08	03/21	03/28	04/09	237
28F	11/11	11/17	11/27	12/10	12/20		02/10	02/23	03/03	03/10	03/24	269
26F	11/18	11/30	12/07	12/17	01/03		02/04	02/12	02/23	03/07	03/22	287
HOUSTON WB AIRPORT		TX	4307	50	29.65	-95.28	8	HARRIS				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/11	11/23	12/01	12/09	12/29		02/12	02/28	03/07	03/10	03/22	269
32F	11/23	12/03	12/12	12/19	01/07		01/15	02/06	02/12	02/27	03/09	303
28F	11/28	12/15	12/29	01/10	01/20		01/13	02/02	02/07	02/12	03/04	325
26F	12/13	12/22	01/08	01/17	02/11		01/04	01/13	01/19	02/09	02/24	354
HUNTSVILLE		TX	4382	490	30.72	-95.55	3	WALKER				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/03	11/09	11/14	11/23	12/03		02/27	03/08	03/20	03/24	04/04	239
32F	11/13	11/21	11/30	12/07	12/18		02/09	02/21	03/06	03/11	03/22	269
28F	11/26	12/07	12/12	12/20	01/10		01/19	02/07	02/13	02/25	03/09	302
26F	11/30	12/11	12/18	12/25	01/20		01/05	02/05	02/11	02/14	03/05	310
KAUFMAN 3 SE		TX	4705	420	32.55	-96.27	3	KAUFMAN				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	11/03	11/10	11/15	11/25		03/09	03/27	04/03	04/07	04/15	221
32F	11/02	11/10	11/13	11/21	12/06		03/01	03/09	03/22	03/27	04/12	236
28F	11/07	11/21	11/30	12/07	12/20		02/06	02/26	03/06	03/13	03/28	269
26F	11/16	11/30	12/07	12/14	01/03		02/03	02/12	02/23	03/05	03/14	287

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION		ST	ID	ELEV	LAT	LONG	CD	County				
LA TUNA 1 S		TX	4931	3800	31.97	-106.60	5	EL PASO				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	10/31	11/03	11/10	11/22		03/17	03/30	04/11	04/17	04/30	206
32F	10/29	11/03	11/10	11/15	11/27		03/08	03/17	03/23	04/01	04/14	232
28F	11/03	11/15	11/20	11/27	12/02		02/13	03/04	03/08	03/20	04/01	257
26F	11/13	11/20	11/27	12/01	12/06		02/07	02/18	03/04	03/10	03/22	268
LAMESA								TX 5013 2970 32.70 -101.93 1 DAWSON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/08	10/13	10/31	11/09	11/14		03/29	04/04	04/09	04/16	05/02	205
32F	10/16	11/02	11/09	11/15	11/24		03/16	03/28	04/04	04/06	04/13	219
28F	10/29	11/11	11/18	11/28	12/02		03/08	03/18	03/24	03/30	04/09	239
26F	11/02	11/13	11/26	11/29	12/10		02/16	03/08	03/18	03/24	03/31	253
LAMPASAS								TX 5018 1020 31.05 -98.18 6 LAMPASAS				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/10	10/20	10/26	11/04	11/11		03/23	03/29	04/05	04/10	04/20	204
32F	10/24	11/02	11/09	11/13	11/19		03/09	03/28	04/04	04/08	04/17	219
28F	10/28	11/11	11/14	11/23	12/06		03/01	03/09	03/19	03/24	04/12	240
26F	11/07	11/14	11/24	12/02	12/12		02/14	03/01	03/08	03/19	04/03	261
LEXINGTON								TX 5193 460 30.42 -97.02 7 LEE				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	11/09	11/14	11/21	12/01		02/23	03/08	03/21	03/27	04/11	238
32F	11/10	11/15	11/26	12/02	12/12		02/12	02/28	03/08	03/18	03/27	263
28F	11/16	12/05	12/08	12/12	01/05		02/03	02/08	02/18	03/03	03/14	293
26F	11/28	12/09	12/14	12/22	01/13		01/19	02/05	02/11	02/17	03/05	306
LIBERTY								TX 5196 40 30.05 -94.80 8 LIBERTY				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/21	11/04	11/11	11/18	11/30		02/19	03/07	03/14	03/22	04/04	242
32F	11/09	11/15	11/25	12/02	12/09		02/08	02/17	02/28	03/08	03/19	270
28F	11/16	12/08	12/15	12/23	01/18		01/13	02/05	02/11	02/22	03/08	307
26F	11/23	12/13	12/22	01/05	01/21		01/13	02/03	02/09	02/13	03/01	316
LIVINGSTON 2 NNE								TX 5271 180 30.73 -94.93 4 POLK				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/08	10/21	10/28	11/08	11/15		03/18	03/26	04/01	04/07	04/13	210
32F	10/25	11/04	11/10	11/15	11/25		03/06	03/17	03/23	04/04	04/10	232
28F	11/03	11/14	11/22	12/02	12/11		02/12	03/02	03/08	03/12	03/23	259
26F	11/14	11/26	12/03	12/08	12/23		02/04	02/16	03/02	03/11	03/16	276

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION		ST	ID	ELEV	LAT	LONG	CD	County				
LLANO		TX	5272	1040	30.75	-98.68	6	LLANO				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/19	10/25	11/02	11/09	11/19		03/08	03/27	04/01	04/07	04/15	215
32F	10/28	11/04	11/13	11/17	11/30		03/05	03/14	03/21	03/27	04/11	237
28F	11/07	11/15	11/25	12/01	12/09		02/10	02/25	03/02	03/09	03/22	268
26F	11/14	11/29	12/07	12/12	01/08		02/04	02/14	02/26	03/07	03/15	284
LUBBOCK WSO AIRPORT		TX	5411	3250	33.65	-101.82	1	LUBBOCK				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/06	10/16	10/20	10/29	11/07		04/01	04/06	04/09	04/18	04/30	194
32F	10/13	10/24	11/02	11/12	11/19		03/23	03/30	04/05	04/10	04/23	211
28F	10/29	11/10	11/14	11/21	11/29		03/14	03/20	03/24	03/31	04/08	235
26F	11/02	11/13	11/19	11/29	12/04		03/05	03/14	03/19	03/25	04/04	245
LUFKIN FAA AIRPORT		TX	5424	280	31.23	-94.75	4	ANGELINA				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	10/26	11/04	11/12	11/19		03/09	03/25	03/27	04/03	04/12	222
32F	10/31	11/06	11/11	11/14	11/26		02/24	03/07	03/12	03/22	04/06	244
28F	11/11	11/22	11/29	12/05	12/16		01/23	02/15	03/01	03/08	03/19	273
26F	11/11	11/29	12/12	12/17	01/08		01/16	02/07	02/14	03/03	03/15	301
MARLIN 3 NE		TX	5611	390	31.33	-96.85	3	FALLS				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	10/31	11/06	11/12	12/01		03/07	03/23	03/31	04/05	04/12	220
32F	11/02	11/11	11/16	11/22	12/02		02/28	03/08	03/18	03/24	04/09	243
28F	11/12	11/23	12/01	12/10	01/03		02/05	02/22	03/01	03/08	03/19	275
26F	11/24	12/02	12/08	12/15	01/04		01/23	02/09	02/22	03/04	03/15	289
MARSHALL		TX	5618	350	32.53	-94.35	4	HARRISON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/12	10/20	11/03	11/09	11/13		03/19	03/27	04/05	04/07	04/13	212
32F	10/22	11/04	11/11	11/14	12/04		03/07	03/20	03/25	04/02	04/10	231
28F	11/05	11/14	11/22	12/04	12/17		02/16	03/01	03/07	03/10	03/23	260
26F	11/14	11/22	12/04	12/08	12/18		01/16	02/16	02/24	03/07	03/15	283
MATADOR		TX	5658	2290	34.02	-100.83	2	MOTLEY				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/11	10/20	10/26	11/04	11/15		03/24	04/05	04/07	04/14	04/29	202
32F	10/20	11/02	11/07	11/11	11/19		03/19	03/27	04/02	04/05	04/11	219
28F	11/02	11/10	11/15	11/24	12/03		03/06	03/15	03/23	03/27	04/05	237
26F	11/07	11/16	11/20	11/30	12/14		02/19	03/07	03/19	03/26	04/02	246

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION		ST	ID	ELEV	LAT	LON	CD	County			
MATAGORDA		TX	5659	10	28.70	-95.97	8	MATAGORDA			
FALL								SPRING			
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD											
36F	11/11	11/20	12/01	12/09	12/29	02/09	02/26	03/07	03/14	03/23	269
32F	11/20	12/07	12/14	12/22	01/14	01/29	02/07	02/12	02/26	03/13	305
28F	12/10	12/18	12/24	01/10	01/23	01/04	01/14	02/04	02/12	02/24	323
26F	12/13	12/22	01/08	01/17	02/11	01/04	01/14	01/19	02/02	02/12	354
MC CAMEY		TX	5707	2450	31.13	-102.20	6	UPTON			
FALL								SPRING			
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD											
36F	10/21	11/01	11/07	11/15	11/21	03/13	03/25	03/31	04/06	04/15	221
32F	10/28	11/10	11/13	11/20	11/29	03/06	03/10	03/22	03/31	04/09	236
28F	11/13	11/20	11/29	12/03	12/10	02/12	02/28	03/07	03/19	04/03	267
26F	11/17	11/26	12/03	12/06	12/12	02/11	02/17	03/03	03/08	03/27	275
MEXIA		TX	5869	540	31.68	-96.48	3	LIMESTONE			
FALL								SPRING			
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD											
36F	10/22	11/04	11/11	11/16	11/26	03/07	03/17	03/25	04/02	04/11	231
32F	11/02	11/13	11/21	11/29	12/12	02/17	03/02	03/08	03/20	03/29	258
28F	11/14	11/26	12/07	12/12	12/27	02/04	02/11	02/23	03/04	03/20	287
26F	11/23	12/01	12/10	12/17	01/02	02/02	02/07	02/13	02/25	03/10	300
MOUNT LOCKE		TX	6104	6790	30.67	-104.00	5	JEFF DAVIS			
FALL								SPRING			
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD											
36F	09/25	10/08	10/17	10/23	11/13	04/13	04/22	04/26	05/03	05/18	174
32F	10/12	10/19	10/31	11/03	11/18	03/29	04/08	04/13	04/19	05/01	201
28F	10/16	11/02	11/11	11/19	11/23	03/12	03/24	04/06	04/11	04/23	219
26F	10/24	11/09	11/18	11/23	12/03	03/08	03/15	03/26	04/09	04/14	237
MOUNT PLEASANT		TX	6108	420	33.17	-95.00	4	TITUS			
FALL								SPRING			
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD											
36F	10/03	10/11	10/19	10/25	11/03	03/22	03/30	04/05	04/08	04/16	197
32F	10/20	10/25	11/04	11/11	11/19	03/14	03/25	03/28	04/05	04/14	221
28F	10/30	11/10	11/14	11/22	12/05	02/24	03/09	03/19	03/22	04/05	240
26F	11/07	11/14	11/22	12/02	12/07	02/20	02/27	03/08	03/11	03/23	259
MULESHOE 1		TX	6135	3760	34.23	-102.75	1	BAILEY			
FALL								SPRING			
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD											
36F	09/23	10/03	10/10	10/15	10/21	04/19	04/27	05/05	05/08	05/15	158
32F	10/08	10/17	10/20	10/31	11/08	04/01	04/09	04/17	04/26	05/07	186
28F	10/11	10/22	11/02	11/10	11/16	03/19	03/31	04/04	04/12	04/22	212
26F	10/13	11/02	11/05	11/11	11/20	03/16	03/24	03/31	04/05	04/18	219

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION	ST	ID	ELEV	LAT	LON	CD	County
MUNDAY	TX	6146	1460	33.45	-99.63	2	KNOX
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/13	10/19	10/30	11/07	11/18		03/22 04/01 04/05 04/08 04/15 208
32F	10/29	11/07	11/11	11/17	11/28		03/15 03/24 03/31 04/04 04/09 225
28F	11/07	11/13	11/19	11/29	12/07		03/05 03/12 03/21 03/26 04/05 243
26F	11/10	11/15	11/23	12/03	12/16		02/17 03/02 03/07 03/21 04/05 261
NEW BRAUNFELS	TX	6276	710	29.73	-98.12	7	COMAL
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/31	11/10	11/14	11/21	12/03		03/07 03/17 03/23 03/27 04/11 236
32F	11/04	11/14	11/25	12/01	12/08		02/12 02/25 03/07 03/13 04/05 263
28F	11/22	12/02	12/09	12/15	01/09		01/29 02/10 02/13 02/27 03/10 299
26F	11/29	12/09	12/15	12/23	01/13		01/13 02/04 02/10 02/13 03/05 308
OZONA 2 SSW	TX	6734	2350	30.68	-101.22	6	CROCKETT
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/09	10/24	11/01	11/05	11/11		03/22 03/27 04/03 04/15 05/04 212
32F	10/22	11/02	11/05	11/13	11/21		03/09 03/23 03/28 04/06 04/12 222
28F	11/01	11/10	11/13	11/21	12/05		03/06 03/14 03/23 04/01 04/09 235
26F	11/01	11/11	11/20	11/30	12/05		02/26 03/07 03/18 03/24 04/07 247
PALACIOS MUNI AIRPORT	TX	6750	20	28.72	-96.25	8	MATAGORDA
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	11/07	11/14	11/25	12/05	12/12		02/12 02/26 03/07 03/13 03/22 263
32F	11/23	12/05	12/12	12/18	12/23		02/01 02/10 02/23 03/05 03/16 292
28F	12/09	12/18	12/26	01/10	02/03		01/08 01/20 02/07 02/12 03/02 322
26F	12/12	12/22	01/08	01/13	02/08		01/04 01/14 01/20 02/02 02/25 353
PALESTINE 2 NE	TX	6757	460	31.78	-95.60	4	ANDERSON
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/23	11/08	11/13	11/17	12/01		03/04 03/14 03/24 03/31 04/11 234
32F	11/07	11/13	11/18	11/27	12/10		02/23 03/05 03/14 03/23 04/07 249
28F	11/11	11/25	12/02	12/12	12/31		02/04 02/13 03/01 03/05 03/22 276
26F	11/27	12/06	12/12	12/18	12/31		01/30 02/08 02/23 03/03 03/15 292
PLAINVIEW	TX	7079	3370	34.18	-101.70	1	HALE
FALL							SPRING
T	10%	30%	50%	70%	90%		90% 70% 50% 30% 10% FFD
36F	10/06	10/15	10/19	10/24	11/05		04/01 04/07 04/15 04/23 05/03 187
32F	10/13	10/21	11/02	11/07	11/11		03/20 04/02 04/06 04/10 04/15 210
28F	10/29	11/03	11/11	11/16	11/29		03/09 03/19 03/25 04/02 04/09 231
26F	11/02	11/11	11/15	11/24	12/09		03/04 03/09 03/19 03/23 04/04 241

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION		ST	ID	ELEV	LAT	LON	CD	County
PORT ARTHUR WSO AP		TX	7174	20	29.95	-94.02	8	JEFFERSON
FALL								SPRING
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	11/01	11/10	11/14	11/25	12/03		02/14	03/03 03/08 03/16 04/03 251
32F	11/14	11/27	12/03	12/10	01/01		02/05	02/17 03/02 03/08 03/21 276
28F	11/28	12/12	12/22	12/29	01/23		01/09	01/29 02/09 02/12 03/03 316
26F	12/01	12/17	12/24	01/11	01/23		01/09	01/17 02/04 02/12 02/25 323
POTEET		TX	7215	480	29.03	-98.58	9	ATASCOSA
FALL								SPRING
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	10/29	11/10	11/22	11/29	12/09		03/03	03/09 03/19 03/23 04/10 248
32F	11/10	11/26	11/30	12/06	12/15		02/07	02/24 03/04 03/09 04/03 271
28F	11/28	12/09	12/17	12/23	01/05		01/12	02/05 02/11 02/23 03/06 309
26F	11/29	12/15	12/22	12/23	01/23		01/12	01/24 02/09 02/14 03/03 316
PRESIDIO		TX	7262	2560	29.53	-104.33	5	PRESIDIO
FALL								SPRING
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	10/30	11/03	11/10	11/19	11/29		03/07	03/18 03/23 04/02 04/15 232
32F	10/31	11/14	11/21	11/27	12/05		02/16	03/02 03/08 03/20 04/05 258
28F	11/09	11/28	12/01	12/09	12/22		02/08	02/20 02/25 03/07 03/22 279
26F	11/17	12/05	12/12	12/18	12/31		01/22	02/04 02/22 02/25 03/16 293
RAYMONDVILLE		TX	7458	30	26.47	-97.80	0	WILLACY
FALL								SPRING
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	11/15	11/29	12/09	12/14	01/05		02/05	02/18 02/27 03/07 03/21 285
32F	11/23	12/12	12/22	01/03	02/04		01/11	01/21 02/12 02/23 03/05 313
28F	12/13	12/23	01/08	01/11	01/13		12/24	01/06 01/14 01/17 02/13 359
26F	12/13	12/24	01/08	01/11	01/13		12/22	12/25 01/08 01/15 02/03 365
RED BLUFF DAM		TX	7481	2800	31.90	-103.92	5	
FALL								SPRING
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	10/13	10/20	10/26	11/05	11/16		03/25	04/06 04/11 04/16 04/24 198
32F	10/19	10/31	11/05	11/11	11/19		03/16	03/22 03/31 04/05 04/14 219
28F	10/30	11/10	11/14	11/19	11/28		02/23	03/07 03/17 03/23 04/04 242
26F	11/02	11/13	11/19	11/24	12/08		02/23	03/06 03/09 03/18 03/31 255
ROSCOE		TX	7743	2380	32.45	-100.53	2	NOLAN
FALL								SPRING
T	10%	30%	50%	70%	90%		90%	70% 50% 30% 10% FFD
36F	10/10	10/19	11/04	11/10	11/19		03/21	04/02 04/07 04/12 04/24 211
32F	10/21	11/03	11/10	11/16	11/27		03/18	03/25 04/01 04/06 04/12 223
28F	11/03	11/12	11/18	11/28	12/03		03/06	03/17 03/23 03/26 04/05 240
26F	11/04	11/12	11/21	11/30	12/09		02/22	03/06 03/14 03/24 04/05 252

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION		ST	ID	ELEV	LAT	LON	CD	County				
SAN ANGELO WSO AP		TX	7943	1900	31.37	-100.50	5	TOM GREEN				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	10/29	11/04	11/10	11/15		03/21	03/28	04/05	04/07	04/15	213
32F	11/02	11/09	11/12	11/20	11/28		03/09	03/21	03/26	04/05	04/11	231
28F	11/04	11/12	11/20	11/29	12/04		02/15	03/05	03/13	03/22	04/03	252
26F	11/05	11/19	11/28	12/04	12/12		02/11	02/25	03/07	03/15	03/30	266
SAN ANTONIO WSFO		TX	7945	790	29.53	-98.47	7	BEXAR				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/25	11/07	11/14	11/23	12/04		03/02	03/09	03/17	03/31	04/09	242
32F	11/06	11/14	11/28	12/03	12/12		02/11	02/21	03/06	03/09	03/23	267
28F	11/16	12/02	12/09	12/17	01/10		01/12	02/07	02/15	03/01	03/08	297
26F	11/20	12/07	12/18	01/04	01/19		01/12	01/24	02/10	02/12	03/06	311
SAN MARCOS		TX	7983	610	29.85	-97.95	7	HAYS				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/20	11/04	11/10	11/15	11/29		03/04	03/10	03/23	04/04	04/12	232
32F	11/05	11/13	11/21	12/04	12/12		02/15	03/06	03/12	03/22	04/04	254
28F	11/15	11/28	12/09	12/14	01/05		01/28	02/10	02/14	03/04	03/08	298
26F	11/16	12/08	12/14	12/20	01/15		12/30	02/04	02/13	02/27	03/08	304
SAN SABA		TX	7992	1200	31.18	-98.72	6	SAN SABA				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/12	10/22	10/27	11/04	11/11		03/21	04/01	04/06	04/07	04/16	204
32F	10/20	11/03	11/11	11/15	11/29		03/02	03/21	03/28	04/05	04/12	228
28F	11/03	11/11	11/18	11/28	12/04		02/12	02/28	03/09	03/20	04/07	254
26F	11/03	11/14	11/28	12/03	12/08		02/10	02/23	03/01	03/10	03/30	272
SANDERSON		TX	8022	2840	30.15	-102.40	5	TERRELL				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/10	10/23	11/03	11/10	11/20		03/15	03/25	04/01	04/06	04/14	216
32F	10/28	11/05	11/11	11/17	11/29		03/06	03/20	03/25	03/31	04/09	231
28F	10/30	11/13	11/19	11/28	12/08		02/15	03/07	03/13	03/20	04/03	251
26F	11/05	11/18	11/26	12/03	12/15		02/13	03/05	03/07	03/13	03/31	264
SEMINOLE		TX	8201	3340	32.72	-102.67	1	GAINES				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/09	10/17	10/21	11/01	11/09		03/31	04/06	04/11	04/20	05/02	193
32F	10/13	10/24	11/01	11/10	11/19		03/19	03/29	04/05	04/09	04/13	210
28F	10/31	11/06	11/13	11/22	11/29		03/08	03/19	03/24	03/31	04/08	234
26F	11/03	11/13	11/17	11/22	12/02		02/14	03/09	03/19	03/26	04/03	243

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION		ST	ID	ELEV	LAT	LON	CD	County
SEYMORE		TX	8221	1290	33.60	-99.25	2	BAYLOR
FALL								SPRING
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD								
36F	10/09	10/18	10/23	11/01	11/13	03/23	04/03	04/08 04/15 04/23 198
32F	10/20	11/02	11/07	11/12	11/20	03/14	03/25	04/03 04/06 04/12 218
28F	11/04	11/11	11/19	11/24	12/05	03/02	03/15	03/20 03/25 04/06 244
26F	11/09	11/13	11/22	12/02	12/09	02/18	03/04	03/09 03/24 04/03 258
SMITHVILLE								
TX 8415 310 30.02 -97.15 7 BASTROP								
FALL								SPRING
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD								
36F	10/20	11/04	11/11	11/15	11/25	03/04	03/09	03/23 03/28 04/11 233
32F	11/03	11/14	11/22	11/30	12/12	02/14	03/02	03/09 03/16 03/23 258
28F	11/15	12/02	12/07	12/13	12/23	01/13	02/13	02/25 03/06 03/19 285
26F	11/28	12/09	12/13	12/19	01/07	01/07	02/06	02/13 03/01 03/09 303
SNYDER								
TX 8433 2340 32.72 -100.92 2 SCURRY								
FALL								SPRING
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD								
36F	10/09	10/19	11/02	11/06	11/13	03/28	04/05	04/07 04/15 04/30 209
32F	10/22	11/02	11/10	11/16	11/27	03/19	03/27	04/02 04/06 04/13 222
28F	11/03	11/12	11/20	11/29	12/07	02/23	03/17	03/24 03/30 04/12 241
26F	11/04	11/20	11/29	12/02	12/11	02/13	03/05	03/15 03/25 04/12 259
SPEARMAN								
TX 8523 3090 36.18 -101.18 1 HANSFORD								
FALL								SPRING
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD								
36F	09/25	10/01	10/11	10/18	10/29	04/13	04/23	05/01 05/07 05/15 163
32F	10/08	10/17	10/22	10/27	11/08	04/07	04/12	04/15 04/24 05/02 190
28F	10/13	10/25	11/03	11/09	11/14	03/19	03/30	04/04 04/06 04/15 213
26F	10/19	11/03	11/09	11/11	11/20	03/18	03/26	04/01 04/05 04/11 222
TAHOKA								
TX 8818 3120 33.17 -101.82 1 LYNN								
FALL								SPRING
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD								
36F	10/04	10/14	10/24	11/03	11/08	03/28	04/07	04/11 04/15 05/02 196
32F	10/13	10/29	11/02	11/14	11/20	03/24	03/31	04/05 04/08 04/13 211
28F	10/31	11/10	11/13	11/20	11/29	03/16	03/22	03/26 03/31 04/05 232
26F	11/03	11/11	11/18	11/27	12/05	02/24	03/15	03/21 03/25 04/05 242
TAYLOR								
TX 8861 560 30.57 -97.42 3 WILLIAMSON								
FALL								SPRING
T 10% 30% 50% 70% 90% 90% 70% 50% 30% 10% FFD								
36F	10/23	11/04	11/11	11/15	11/30	03/03	03/18	03/26 04/02 04/13 230
32F	11/10	11/14	11/16	11/28	12/12	02/16	03/04	03/10 03/20 03/30 251
28F	11/15	12/01	12/08	12/13	12/29	02/04	02/13	02/25 03/06 03/18 286
26F	11/26	12/07	12/13	12/20	01/09	01/05	02/08	02/10 02/22 03/06 306

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION		ST	ID	ELEV	LAT	LON	CD	County				
THOMPSONS 3 WSW		TX	8996	70	29.48	-95.63	8	FORT BEND				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/26	11/10	11/15	11/28	12/06		02/19	03/04	03/10	03/17	03/23	250
32F	11/12	11/30	12/05	12/13	12/24		01/25	02/14	02/28	03/07	03/16	280
28F	11/16	12/10	12/18	12/29	01/23		01/09	02/04	02/11	02/22	03/05	310
26F	11/23	12/14	12/23	01/11	02/11		12/26	01/14	02/04	02/12	03/03	322
THROCKMORTON								TX 9014 1440 33.18 -99.18 3 THROCKMORTON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/11	10/19	11/02	11/06	11/16		03/21	04/04	04/06	04/11	04/19	210
32F	10/29	11/04	11/10	11/14	11/23		03/10	03/24	03/29	04/04	04/09	226
28F	11/10	11/13	11/20	11/28	12/08		02/17	03/07	03/15	03/25	04/07	250
26F	11/11	11/17	11/23	12/03	12/14		02/17	03/04	03/09	03/21	04/04	259
VAN HORN								TX 9295 3960 31.07 -104.78 5 CULBERSON				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/19	10/30	11/04	11/09	11/29		03/27	04/06	04/09	04/15	04/24	209
32F	10/29	11/04	11/10	11/17	11/29		03/16	03/23	04/03	04/09	04/18	221
28F	11/02	11/11	11/20	11/27	12/18		02/28	03/08	03/17	03/22	04/10	248
26F	11/09	11/20	11/28	12/10	01/01		02/14	02/23	03/06	03/15	03/22	267
VICTORIA WSO								TX 9364 100 28.85 -96.92 8 VICTORIA				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/08	11/14	11/26	12/05	12/12		02/09	02/26	03/06	03/10	04/03	265
32F	11/18	12/03	12/11	12/18	01/12		01/23	02/07	02/12	02/26	03/07	302
28F	11/30	12/18	12/24	01/07	01/16		01/13	01/29	02/07	02/12	03/03	320
26F	12/09	12/22	01/06	01/12	02/04		01/08	01/19	02/04	02/09	02/12	336
WACO WSO AP								TX 9419 500 31.62 -97.22 3 MCLENNAN				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/22	11/05	11/11	11/15	12/01		03/06	03/23	04/01	04/05	04/12	224
32F	11/11	11/15	11/22	12/01	12/12		02/15	03/05	03/14	03/24	04/08	253
28F	11/15	11/29	12/07	12/14	12/30		02/06	02/12	02/25	03/08	03/21	285
26F	11/29	12/09	12/13	12/23	01/09		01/25	02/08	02/12	02/23	03/14	304
WEATHERFORD								TX 9532 1060 32.77 -97.82 3 PARKER				
FALL								SPRING				
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/06	10/20	10/29	11/04	11/14		03/23	04/02	04/05	04/10	04/17	207
32F	10/20	11/01	11/09	11/12	11/19		03/07	03/25	04/02	04/06	04/13	221
28F	11/01	11/11	11/16	11/25	12/11		02/23	03/07	03/19	03/27	04/11	242
26F	11/07	11/15	11/24	12/05	12/24		02/10	02/28	03/06	03/19	04/04	263

Frost / Freeze Analysis in the Southern Climate Region

Texas

STATION			ST	ID	ELEV	LAT	LON	CD	County			
WHITNEY DAM			TX	9715	570	31.85	-97.37	3	BOSQUE			
FALL									SPRING			
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/22	11/04	11/11	11/16	11/23		03/16	03/25	03/29	04/06	04/13	227
32F	11/04	11/13	11/16	11/24	12/07		02/22	03/07	03/14	03/23	04/11	247
28F	11/12	11/19	11/30	12/08	12/18		02/09	02/18	03/02	03/06	03/14	273
26F	11/18	11/30	12/08	12/12	12/26		02/05	02/10	02/22	03/02	03/11	289
WICHITA FALLS WSO			TX	9729	990	33.97	-98.48	2	WICHITA			
FALL									SPRING			
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/16	10/28	11/04	11/10	11/16		03/22	04/01	04/05	04/09	04/19	213
32F	10/28	11/05	11/10	11/16	11/21		03/10	03/24	03/27	04/04	04/12	228
28F	11/11	11/14	11/21	11/29	12/08		02/16	03/06	03/14	03/24	04/05	252
26F	11/13	11/23	11/30	12/04	12/13		02/16	02/27	03/08	03/19	03/27	267
WINK FAA AIRPORT			TX	9830	2810	31.78	-103.20	5	WINKLER			
FALL									SPRING			
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	10/13	10/23	10/31	11/06	11/11		03/26	04/03	04/08	04/14	04/28	206
32F	10/23	11/01	11/04	11/11	11/20		03/14	03/23	03/29	04/05	04/13	220
28F	10/24	11/10	11/15	11/22	12/01		02/23	03/08	03/16	03/22	04/05	244
26F	11/07	11/14	11/20	11/29	12/04		02/23	03/02	03/09	03/18	03/31	256
YOAKUM			TX	9952	330	29.28	-97.13	7	LAVACA			
FALL									SPRING			
T	10%	30%	50%	70%	90%		90%	70%	50%	30%	10%	FFD
36F	11/01	11/13	11/22	11/29	12/11		02/14	03/06	03/08	03/21	04/04	259
32F	11/13	11/22	12/03	12/10	12/17		02/08	02/21	03/05	03/07	03/21	273
28F	11/26	12/06	12/14	12/24	01/12		01/13	02/04	02/11	02/18	03/06	306
26F	11/30	12/14	12/23	01/07	01/17		01/13	02/04	02/09	02/13	03/03	317